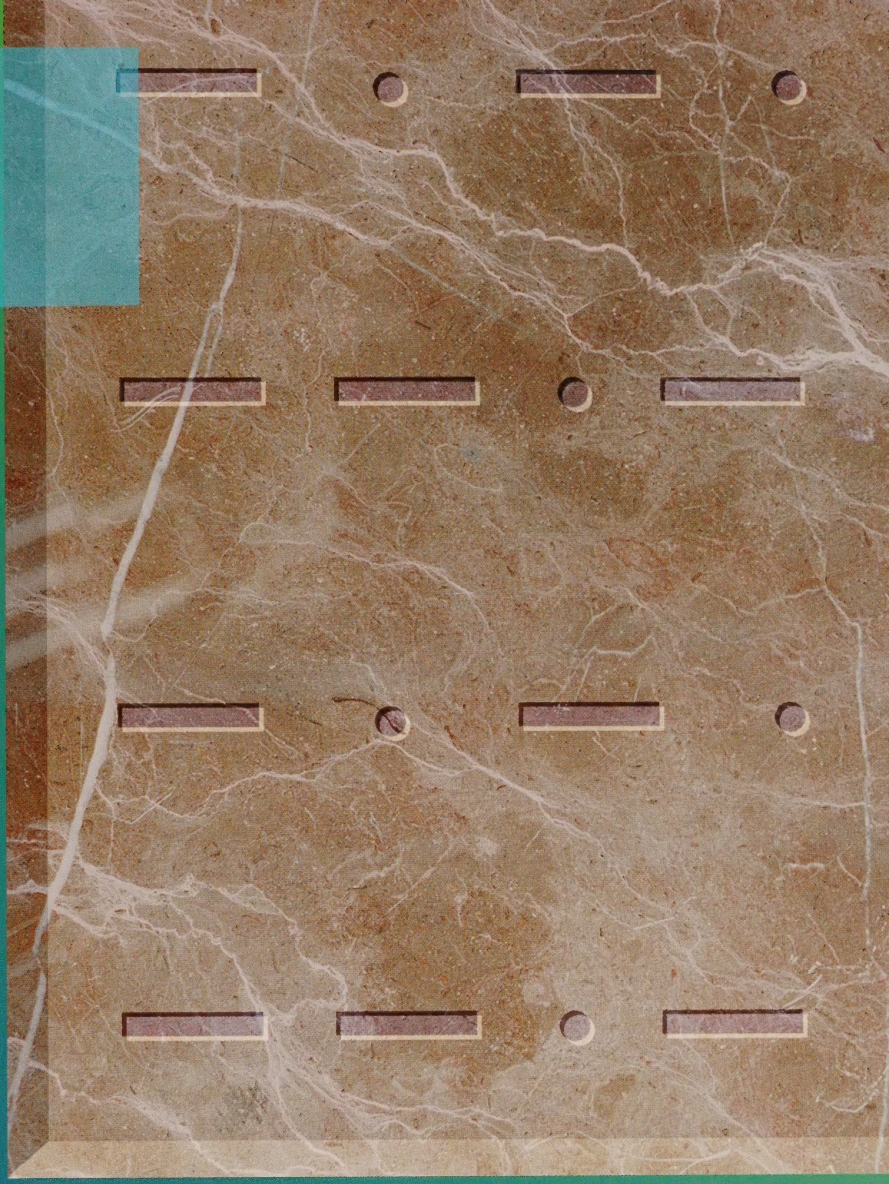
DAYTON

hamvention®95



Hara Arena Conference
& Exhibition Center
Dayton, Ohio

April 28, 29 & 30, 1995

Sponsored by the Dayton Amateur Radio Association

Explore the Kenwood Dimension

The finest selection of communications equipment for the Amateur Radio enthusiast

H F T R A N S C E I V E R S

TS-950SDX •160m to 10m amateur band operation, 100kHz to 30MHz general coverage receiver •Built-in DSP (Digital Signal Processor) •MOS-type FET final section •Dual frequency receive •Menu system

TS-850S •160m to 10m amateur band operation, 100kHz to 30MHz general coverage receiver •DDS (Direct Digital Synthesizer) & digital PLL system •AIP (Advanced Intercept Point) system •IF slope tuning •Electronic message keyer circuit with weighting control

TS-450S/690S •160m to 10m amateur band operation, 500kHz to 30MHz general coverage receiver •6m amateur band and 50–54MHz general coverage receive (TS-690S) •DDS (Direct Digital Synthesizer) & digital PLL system •AIP system •IF shift function tuning •AF notch filter

TS-140S •160m to 10m amateur band operation, 500kHz to 30MHz general coverage receive •IF shift circuit •31 memory channels with multi-scan functions •Dual-mode noise blanker •Speech processor with audio compression amplifier

A L L - M O D E T R A N S C E I V E R S

TS-50S •Super-compact, 100-watt, 160m to 10m transceiver, 500kHz to 30MHz general coverage receiver •DDS (Direct Digital Synthesizer) with "fuzzy logic" control •AIP system •100-memory channels •CW reverse •Menu system

TS-790A •144/440MHz dual-band operation •1200MHz unit (option) •All-mode operation •Satellite communications with Doppler effect frequency correction •59 multi-function memory channels with lithium battery back-up

TS-60S •50MHz all-mode operation •Max. 90W RF output (SSB, CW & FM) •100 memory channels •DDS with "fuzzy logic" control •AIP, IF shift (SSB & CW) and optional 500Hz CW filter •Dual-menu system

TM-255A/455A •All-mode operation (TM-255A: 144MHz; TM-455A: 430MHz) •101 memory channels •DDS with "fuzzy logic" control •TF-SET (TX frequency set) function •DTSS selective calling with page •1200/9600bps packet terminal

F M M O B I L E T R A N S C E I V E R S

TM-742A/642A/942A

•Multi-band operation (TM-742A: 144/440MHz; TM-642A: 144/220MHz; TM-942A: 144/440/1200MHz) •Optional FM band units for TM-742A/642A (TM-742A: 28/50/220/1200MHz; TM-642A: 28/50/440/1200MHz) •Dual/triple receive capability •101 memory channels per band •Detachable display & control panels (option)

TM-733A •144MHz/440MHz dual-band operation •Dual receive on same band (VHF+VHF or UHF+UHF) •"6-in-1" programmable memory •72 memory channels •DTSS selective calling with page •1200/9600bps packet terminal •AIP system •Cross-band repeater function

TM-241A/331A/441A/541A

•Single-band operation (TM-241A: 144MHz; TM-331A: 220MHz; TM-441A: 440MHz; TM-541A: 1200MHz) •20 multi-function memory channels plus call channel •Multi-scan capability •Selectable CTCSS tone encoder •Multi-function microphone supplied

TM-251A/451A •Single-band operation (TM-251A: 144MHz; TM-451A: 440MHz) •41 memory channels (optionally expandable to 200) •Dual-band receive •Digital recording system •DTSS selective calling with page •1200/9600bps packet terminal

F M H A N D H E L D T R A N S C E I V E R S

TH-79A •144MHz/440MHz dual-band operation •Compact, light design •Mos FET power Module •Dot-matrix LCD, Guide function & menu system for easy operation •Dual receive on same band •82 non-volatile memory channels in E²PROM •ID memory & DTMF memory •Built-in CTCSS encode/decode •Cross-band repeater function

TH-28A/48A

•Single-band transmit and dual-band receive (TH-28A: TX 144MHz/RX 144/440MHz, TH-48A: TX 440MHz; RX 144/440MHz) •Alphanumeric memory •Alphanumeric message paging •40 multi-function memory channels (non-volatile) •Tone alert system with indicator

TH-22AT/42AT

•Single-band operation (TH-22A: 144MHz; TH-42A: 440MHz) •MOS FET power module •Built-in DTMF keypad •40 memory channels in E²PROM (plus 1 call channel) •Multiple scan functions •Dual scan stop modes (CO & TO) •Channel Display function

C O M M U N I C A T I O N R E C E I V E R

R-5000 •100kHz to 30MHz in 30 bands, with optional 108–174MHz coverage •SSB, CW, AM, FM & FSK modes •Dual IF crystal filters •IF shift circuit •100 memory channels with multi-scan functions

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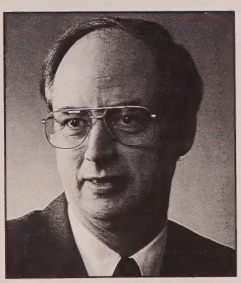
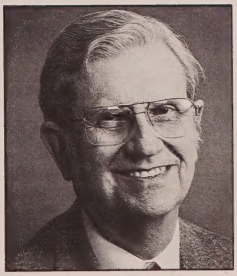


Ken Allen, KB8KE
General Chairman



Dick Miller, N8CBU
Assistant
General Chairman

Welcome!

On behalf of the Dayton Amateur Radio Association and the Dayton Hamvention Committee, I am pleased to welcome you to the 1995 Dayton Hamvention.

Since before the doors closed on Sunday afternoon at last year's show, the Hamvention Committee has been hard at work to assemble another great program. As always, our goal is to provide the very best in equipment displays, an outstanding Flea Market, stimulating forums and social events. We hope that everyone visiting Hamvention finds "just what they're looking for."

Again, welcome to our show. Have a great time, renew old friendships, make new ones and have a safe trip home. See you in '96.

73,

Ken Allen, KB8KE

General Chairman

SIRIO, known throughout Europe as a manufacturer of world class antennas, has just released their new "High Performance" amateur series. Sirio combines "old world" craftsmanship and leading edge technology to provide a wide range of antennas for virtually every radio service - Amateur, Commercial, Land Mobile, Marine and Cellular at prices that will surprise you.

- A wide range of models for every application
- Superb precision manufacturing
- Fabricated from only the highest quality materials
- Fold-over feature on all High Performance models
- Maximum theoretical gain and lowest possible radiation angle
- Factory pre-tuned wide band performance
- Custom VSWR and Bandwidth charts available.

1. High Quality 17/7 PH stainless steel whip.
2. Tiltabler section with rubber gasket and stainless steel retention spring.
3. Dielectric low-loss "ZYTEL" insulator with brass insert soldered at the coil.
4. High "Q" air wound coil for low dielectric loss.
5. High voltage ceramic capacitator for a perfect impedance matching.
6. Gold plated brass center pin with low dielectric loss "TEFLON" insulator.
7. Silicon rubber gasket and O-ring for a perfect waterproofing

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Exhibit Hours ...

Exhibits open and prizes on display.

Friday	Noon - 6:00 p.m.
Saturday	8:00 a.m. - 5:00 p.m.
Sunday	8:00 a.m. - 2:00 p.m.

Flea Market Hours ...

Friday	8:00 a.m. - 6:00 p.m.
Saturday	6:00 a.m. - 5:00 p.m.
Sunday	6:00 a.m. - 4:00 p.m.

Forum Hours ...

Friday	1:00 p.m. - 4:45 p.m.
Saturday	9:00 a.m. - 5:00 p.m.
Sunday	9:30 a.m. - 1:30 p.m.

Prize Drawings ...

Drawing for major prizes: 2:00 p.m. Sunday

All inside areas except Prize Drawing Area (Hara Arena) will be closed and secured at 2:00 p.m. Sunday. Hara Arena will be closed after the last prize is drawn.

Message Center ...

Leave a message for your friends by entering their call sign and message at the DARA Booth #1 (next to the Prize Booth)(see map page 86). Prize monitors throughout the arena complex and at the DARA Booth will periodically list "message holding", by call sign.

Talk-in Frequencies ...

For directions and assistance in the Dayton Area during your visit to Hamvention, contact "Talk-In" on the DARA Repeater 146.94 (-), alternate 146.91(-).

Dayton Hams also monitor 223.94 (-), 442.1 (+).

Baggage Check ...

Room near Hamvention office. $1.50 per claim check. All items must be reclaimed by closing time each day. Time extended to 4:00 p.m. on Sunday. No overnight storage is permitted.

Lost and Found ...

Please take items to the Hamvention Office. (See map on page 86). We have quite a few items that were lost last year, please check with us.

Special Event Station...

Special Event Station W8BI/8 will again operate from the Hamvention Flea Market. The Station will be open to the public during Flea Market hours. Those who upgrade at the Hamvention testing session are especially invited to stop by and use their new privileges. (See page 86 for location.)

W8BI/8 will usually be operating in the general and novice phone and CW portions, as band conditions dictate, to allow as many as possible to be with us in spirit.

W8BI/8 QSLs Hams and SWLs 100%. To QSL, send a business-size stamped, self-addressed envelope to W8BI/8, P. O. Box 44, Dayton, Ohio 45401, or QSL via the Bureau.

Hamvention Office ...

The Hamvention office is located just inside and to the right of the main entrance of the Conference & Silver Arena (see map on page 86). Services include: general information, lost and found, advance registration pick-up, and wheelchairs.

Air Freight Service ...

United Parcel Service (UPS) will offer domestic and international air freight service from the "floor of Hamvention", Booths 204 and 216, on Friday, Saturday and Sunday. UPS will have representatives at their booth to assist you with your shipping needs. See map on page 86.

Hours:	Friday	12:00 Noon	- 6:00 p.m.
	Saturday	9:00 a.m.	- 5:00 p.m.
	Sunday	9:00 a.m.	- 2:00 p.m.

License Exams ...

License exams for all pre-registered candidates at Meadowdale High School on Saturday. Shuttle bus service is provided from Hara Arena to the test site. No Walk-Ins. Test begins at 10:00 a.m. Doors open at 9:00 a.m. for check-in of pre-registered applicants. There will be no walk-ins.

Dayton Amateur Radio Association (DARA) and Hamvention fully support, and are committed to the objectives of the Americans with Disabilities Act (ADA). DARA and Hamvention strive to provide equal opportunity to all qualified persons to participate in Hamvention. Our objective is to provide access to the event that we organize and we expect nothing less of those who provide building facilities, exhibits, and services to our event.

What's Amateur Radio worth to you?

You invest every year in equipment, antennas and other Amateur Radio accessories. You probably insure your gear because it's valuable and expensive to replace.

Is Amateur Radio valuable to you? Are your privileges worth protecting? And can you insure that the Amateur Radio you know and enjoy today will continue into the future? **Not alone.**

The American Radio Relay League is Amateur Radio's best representative wherever rules are made governing the Amateur Radio spectrum. **There is no other organization in the United States that works on behalf of Amateur Radio with Congress and the FCC.** Today, the **ARRL** is your voice in all worldwide arenas where the allocation and management of radio spectrum are discussed.

Can the ARRL maintain a formidable presence in Amateur Radio matters? **Not alone.**

The key to a strong ARRL will always be our membership. Each member, simply by joining, plays a pivotal role in Amateur Radio decision-making and preservation.

Can you join another organization and receive a monthly magazine? Obviously, we think ***QST*** is your best choice for an Amateur Radio journal, but there are others. The question is: **Do you want more for your money than just a magazine each month?**

As an **ARRL Member** you'll receive ***QST*** and have access to **"Members Only"** benefits and services. Beyond the immediate benefits, your membership provides essential support to **the only US organization dedicated to fighting for Amateur Radio and for you.**

Is ARRL membership worth it? **Is Amateur Radio important enough to help insure its future? It's your decision.** Please fill out the membership application and mail it today.

Yes, Amateur Radio is important to me and I want to be part of its future. Please enroll me as an ARRL member and rush my first issue of *QST* and membership certificate.

Class of License _____ Call Sign _____ Date of Application _____

Name _____

Address _____

City _____ State _____ Zip _____

If you do not want your name and address made available for non-ARRL related mailings, please check here ❑

Please Check:

❑ Sign me up for a one-year membership at $31.

❑ I'm eligible for a one-year, $25, 65 years or older rate.
Proof of age in the form of a copy of my birth certificate or driver's license is enclosed.

❑ Payment Enclosed

❑ Charge to ❑ VISA ❑ MasterCard ❑ Amex ❑ Discover

Card Number _____ Expiration Date _____

Cardholder's Signature _____

To order by phone, call 1-800-32-NEWHAM

Family, Blind and Life Memberships available. If you are 21 years old or younger, a special rate may apply. Call or write ARRL HQ for details.

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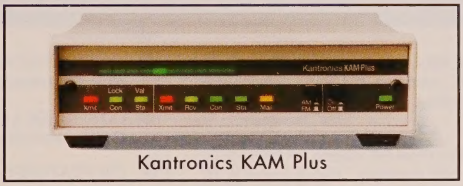
ENJOY THE FLIGHT



Kantronics KAM Plus

Move up to the KAM Plus.
Isn't it time you spread your wings?

Kantronics

For more information, contact your authorized Kantronics dealer or Kantronics at
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913-842-7745 FAX 913-842-2031.

SEE US IN BOOTHS 42-44.

JRC

JST-245

160-10 Meters PLUS 6 Meter Transceiver

Fifteen reasons why your next HF transceiver should be a JST-245. . .

1. All-Mode Operation (SSB,CW,AM,AFSK,FM) on all HF amateur bands and 6 meters. JST-145, same as JST-245 but without 6 meters and built-in antenna tuner.

2. MOSFET POWER AMPLIFIER • Final PA utilizes RF MOSFETs to achieve low distortion and high durability. Rated output is 10 to 150 watts on all bands including 6 meters.

3. AUTOMATIC ANTENNA TUNER • Auto tuner included as standard equipment. Tuner settings are automatically stored in memory for fast QSY.

4. MULTIPLE ANTENNA SELECTION • Three antenna connections are user selectable from front panel. Antenna selection can be stored in memory.

5. GENERAL COVERAGE RECEIVER • 100 kHz-30 MHz, plus 48-54 MHz receiver. Electronically tuned front-end filtering, quad-FET mixer and quadruple conversion system (triple conversion for FM) results in excellent dynamic range (>100dB) and 3rd order ICP of +20dBm.

6. IF BANDWIDTH FLEXIBILITY • Standard 2.4 kHz filter can be narrowed continuously to 800 Hz with variable Bandwidth Control (BWC). Narrow SSB and CW filters for 2nd and 3rd IF optional.

7. QRM SUPPRESSION • Other interference rejection features include Passband Shift (PBS), dual noise blanker, 3-step RF attenuation, IF notch filter, selectable AGC and all-mode squelch.

8. NOTCH TRACKING • Once tuned, the IF notch filter will track the offending heterodyne (±10 Khz) if the VFO frequency is changed.

9. DDS PHASE LOCK LOOP SYSTEM • A single-crystal Direct Digital Synthesis system is utilized for very low phase noise.

10. CW FEATURES • Full break-in operation, variable CW pitch. built in electronic keyer up to 60 wpm.

11. DUAL VFOs • Two separate VFOs for split-frequency operation. Memory registers store most recent VFO frequency, mode, bandwidth and other important parameters for each band.

12. 200 MEMORIES • Memory capacity of 200 channels, each of which store frequency, mode, AGC and bandwidth.

13. COMPUTER INTERFACE • Built-in RS-232C interface for advanced computer applications.

14. ERGONOMIC LAYOUT • Front panel features easy to read color LCD display and thoughtful placement of controls for ease of operation.

15. HEAVY-DUTY POWER SUPPLY • Built-in switching power supply and "silent" cooling system designed for continuous transmission at maximum output.

JRC *Japan Radio Co., Ltd.*

430 Park Ave., 2nd Floor New York, NY 10022 Phone: (212) 355-1180 Fax: (212) 319-5227

SEE US IN BOOTHS 518, 519. WE ARE A HAMVENTION PRIZE DONOR.

Registration & Ticket Sales

DAYTON hamvention®

General Admission...

Tickets (valid all 3 days) . . . . . **$15.00** Age 12 or younger . . . . . **FREE**

A general admission ticket is required to attend the Alternate Activities. This ticket can be purchased at Meadowdale High School.

Mail order ticket requests RECEIVED by April 8 (Canada - April 1) were sent by return mail. Orders received AFTER the deadlines are held for pick-up in the Hamvention office.

Grand Banquet...

Tickets $25.00 each. Tickets will be sold until 12:00 (noon) Saturday at Hara Arena. If banquet tickets are still available, they may be purchased at the banquet door.

Admission Tickets May Be Purchased...

Thursday . . . . . .Starting at noon Friday . . . . . .Starting at 7:00 a.m.

Saturday . . . .Starting at 6:00 a.m. Sunday . . . . .Starting at 6:00 a.m.

Alternate Activities Luncheon...

(INCLUDES DOOR PRIZE DRAWING)

Luncheon Saturday . . . .$9.00 Sunday.....$8.00

LUNCHEON TICKETS ARE SOLD ONLY AT:

Hara Arena (Room 3)

Friday .....2:00 p.m. to 3:00 p.m.

Meadowdale High School

Saturday .....8:00 a.m. to 12:00 p.m. (noon)

Sunday .....8:00 a.m. to 12:00 p.m. (noon)

Flea Market...

A general admission ticket is required to enter the Flea Market. For 1996 Flea Market permits, watch for our ad in various amateur radio magazines. See pages 80 and 88 for more Flea Market information.

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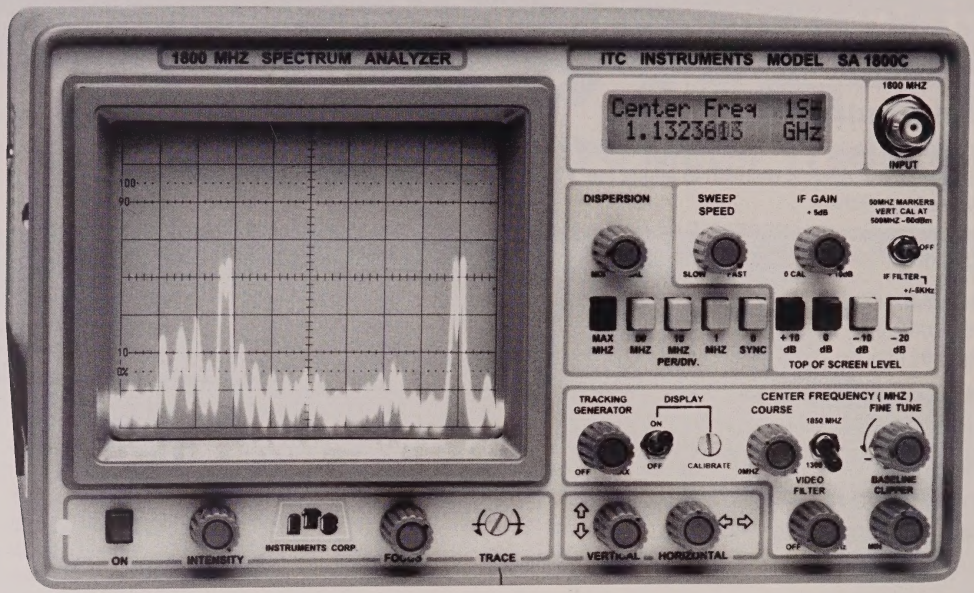
DAYTON HAMVENTION SPECIAL



6" x 12" x 16" (H x W x D) (only 16 LB)

SA1800C Shown $2395.00

MADE IN THE USA **SPECTRUM ANALYZER** **1YR. WARRANTEE**

Model SA1300B **1-1300 MHz** ***In One Sweep*** **$1995.00** Options 1.3.5.6

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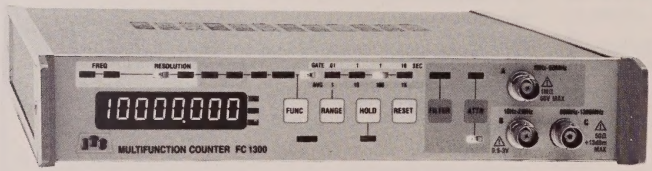
The **SA500A** easily attaches to any receiver IF output jack. Providing a panoramic signal display of your scanner or communication receiver. The **SA500A** is a Full Function Spectrum Analyzer with +/- 5KHz Narrow Band Filter, Center Freq. Display, 50 MHz Marker. **SA500A** The first affordable **Professional Spectrum Monitor/Analyzer** for all serious Ham Radio and Radio Monitoring Operators. With Opt. 1,3,5,6

TWO FULL FUNCTION ANALYZERS

Quality & Performance with 80dB on Screen, -110 dBm Sensitivity, Center Freq. Display, +/- 5KHz Narrow Band Filter 50 MHz Marker. **DISPERSION ZOOM**, Baseline Clipper, Adjustable Sweep Speed, Video Filter, and 40dB Input Attenuation. SA1300B 1-1300MHz

SA1800B 1-1300 & 850-1850MHz **$2395** With Opt. 1,3,5,6

.001 ppm FREQUENCY COUNTER $449.00 At Dayton Show Only



ITC FC1300: ***the first truly*** **Accurate** ***low cost*** **Frequency Counter**. Accuracy is the **#1 Frequency Counter Requirement.** The $200 - $800 counters being advertised the past few years are but toys when it comes to accuracy. These **guess-so-matic** units are off 5 to 10 PPM over temperature & time (That's +/- 6,000 -13,000 Hz at 1.3 GHz) The **FC1300** is accurate to within **+/-13 Hz at 1.3 GHz 0-40 degrees C.**

Period Averaging, Time Interval, External Counter, Freq. Ratio, 4 Gate Times

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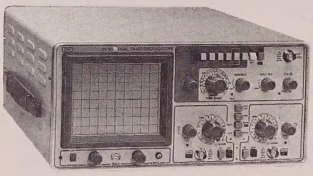
All New ITC *Low Cost High Performance* Oscilloscopes



25 MHz Scope
Model ST3304 Dayton only **$299.95**
1 mV Vertical Sensitivity
X-Y Modes Z axis (intensity modulation)
6" Bright 2KV CRT **<14nS** Rise time

25 MHz Scope / Tester
Model ST3324 Dayton only **$399.95**
Dual Component Comparator/Tester
Triple DC Supplies +5/A, +/-12/.2A

40MHz Delayed Sweep Scope
Model ST3315 Dayton only **$539.95**
Delayed Sweep 1nS-1 Sec <8nS Rise Time

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COME TO BOOTH 324-325
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Bus Transportation ...

AVOID PARKING PROBLEMS BY TAKING THE HAMVENTION BUSES.

Free bus service will be provided between Hamvention and our satellite parking areas at the Air Force Museum, Forest Park Plaza and the Salem Mall.

Free bus service will also be provided to and from the Tall Timbers KOA Campground, the Miami Valley Technology Center, and Meadowdale High School.

In addition, some motels offer transportation to Hamvention. The following is a list of motels providing this service for a $2.00/round trip fee:

Best Inn
Best Western Continental Inn
Best Western Dayton North
Comfort Inn
Country Hearth Inn
Courtyard by Marriott
Days Inn Dayton
Days Inn, Dayton South
Dayton Airport Inn
Dayton Marriot
Dayton Rodeway Inn
Econo Inn
Econolodg, North
Fairfield Inn by Marriott, Miller Lane
Fairfield Inn by Marriott, Paramount Place
Guest Quarters Suite Hotel
Hampton Inn Northwest
Hampton Inn South
Hampton Inn, Paramount Place
Holiday Inn, Dayton Mall
Holiday Inn, Dayton South
Holiday Inn, Dayton I-675
Holiday Inn, North
Holiday Inn, Northwest
Homewood Suites
Ideal Motel
Knights Inn, Dayton South
Knights Inn North
Motel 6, South
Parkview Inn
Radisson Hotel & Suites
Radisson Inn, Dayton
Ramada Inn, North
Red Horse Motor Inn
Red Roof Inn, Fairborn
Red Roof Inn Dayton, Miller Lane
Red Roof Inn, Miamisburg
Residence Inn by Marriott North
Residence Inn by Marriott, South
Riverside Motel
Signature Inn
Stouffer Renaissance
Super 8 Motel, Edwin C. Moses Blvd
Super 8 Motel, Old Troy Pike

Buses will run continuously and make routes as quickly as possible. Due to changing traffic patterns and bus loads, an exact bus schedule is impossible.

BANQUET ROUTE

A bus will be available only from Miami Valley Technology Center and Dayton Tall Timbers Resort (KOA) to the Convention Center.

Parking ...

We have arranged for free parking at the Air Force Museum, Forest Park Plaza, and Salem Mall. (See map on page 99). Please park in one of our designated parking areas and use our free shuttle bus. There are over 10,000 privately owned pay-to-park parking spaces near Hara Arena.

Camping ...

Campers, trailers, self-contained vehicles, or vehicles that require more than one space will not be permitted to park at Salem Mall. Campers and trailers may park at Tall Timbers KOA or at the Miami Valley Technology Center (fee charged, see map) after 3:30 p.m. on Friday and all day Saturday and Sunday.

Loading Pass ...

You can obtain a 20 minute loading pass to load or unload from the guard at Entrance 1. You will be issued a time stamped pass to allow you to park in a designated area in front of the arena buildings. (See map on page 86).

Wheelchairs ...

Wheelchairs are available at the Hamvention office with proper I.D.

Handicapped Parking Permits...

Handicapped visitors have been issued special parking passes in advance.

Hamvention Phone Numbers ...

Office	276-6930
Flea Market	276-6932
Exhibits	276-6931
Communications	274-1410
Forums	274-9542

Future Hamvention Dates ...

1996 — May 17,18, 19
1997 — May 16,17, 18
1998 — May 15,16, 17

NOTE THAT THE DATES HAVE CHANGED FROM PREVIOUS YEARS.

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Inquire at the Kenwood Booth for information on other Free deals!

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SEE US IN BOOTHS 50-52, 71-73. WE ARE A HAMVENTION PRIZE DONOR.

DARA Membership ...

If you would like to join the Dayton Amateur Radio Association (DARA), go to Booth #1 (next to the Prize Booth) in the Hara Arena building.

Membership through June 30, 1996: $6

Additional family membership (at the same address): $2 per person

Exhibitor Information ...

To receive information about becoming a new exhibitor at the 1996 Hamvention, leave your name and address at the Exhibits Office or write to:

Hamvention
Exhibits Chairman
P.O. Box 964
Dayton, OH 45401-0964

Accurate Address Information Needed...

Did you fail to get advance Hamvention information in the mail this year? If so, there may have been a problem with your mailing address. Our mailing list is compiled from information taken from advanced registration and admission ticket stubs. The Post Office requires accurate addressing and Zip+4. We process our mailing lists by computer to add the Zip+4 code and correct the spelling of Street and City names where possible. In spite of that, we are forced to discard more than 4000 addresses every year due to unreadable ticket stubs, or improper or incomplete address information.

By the time you read this, you have probably already deposited your ticket stub, but next year, help us get your info correct. Check with your Post Office and use their standardized spelling, format and Zip+4.

Unofficial Functions Listings ...

To be listed in the Unofficial Functions section of the 1996 program and/or our direct mail pieces:

Contact: **Hamvention Publications Chairman**
P. O. Box 964
Dayton, OH 45401-0964

Deadline for mailer: January 2, 1996

Deadline for program: March 1, 1996

Scholarships...

Scholarship applications are available at the DARA Booth (Booth #1).

Program Advertising ...

To receive information about becoming a new advertiser in the 1996 Hamvention program, write to:

Hamvention Advertising Chairman
P. O. Box 964
Dayton, OH 45401-0964

Forum Speaker ...

If you would like to be considered as a Forum speaker for the 1996 Hamvention, write to:

Hamvention Forums Chairman
P. O. Box 964
Dayton, OH 45401-0964

Banking Services...

Bank One of Dayton will be exchanging various denominations of bills, issuing cash advances on MasterCard/VISA, and providing Cashiers Checks. Banking services for Hamvention guests will be available during regular Exhibit Hours. *For more information on available banking services, please see Bank One directly.* (See map on pages 86 & 87 for location).

Emergency Medical Care ...

There is an Urgent Care Office located at

5915 N. Main Street

Their hours of operation are from 8:30 a.m. to 10:00 p.m. 278-3826.

From Hara Arena, take Shiloh Springs Road to the traffic light at Main Street, turn left, to the first building on the left.

Also located in the area is Good Samaritan Hospital -

2222 Philadelphia Drive

278-2612.

From Hara Arena, take Wolf Road to Salem Avenue, take a left, proceed to the traffic light at Philadelphia Drive.

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Sunday January 28,1996 8am-2pm at *The Odeum Exposition Center*- Villa Park IL

Information
WCRA
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Wheaton IL 60189
708.545.9950 (voice/fax)

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$8 at door (1 stub).
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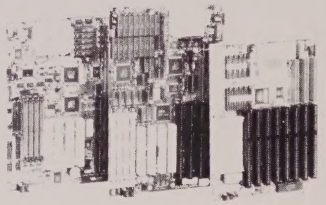
Mother Boards



Special Price! 486DX2/80MHz, VLB,ZIF, Green Motherboard **$250.00 Or Lower**
Cooling Fan Included

Mother Boards With Built-in CPU's

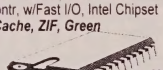
386SX40		59
386DX40		89
486SX2-50	256K Cache, ZIF, VLB, Green	189
486SLC2-66	Math Coprocessor installed, VLB	149

Mother Boards Without CPU's

486VLB	Green, 3VESA Local Bus, 265K Cache, 4 30Pin/2 72 Pin Sockets, AMI BIOS, ZIF Socket, Enhanced BIOS	99
486VLB	Green, 3VESA Local Bus, 265K Cache, **8 30Pin/2 72 Pin** Sockets, AMI BIOS, ZIF Socket, Enhanced BIOS	129
486 PCI/VLB	Green, 2 VESA Local Bus Slots, 3 PCI Slots, 256K Cache ZIF, Built-in PCI IDE Controller with fast I/O Ports	149
Pentium	60/66, Built-In PCI EIDE with Fast I/O, 256K Cache	159
Pentium	90 PCI, Built-in PCI IDE Contr. w/Fast I/O, Intel Chipset	269

486 Motherboard With CPU, VLB, 256K Cache, ZIF, Green

Model	*Intel*	*AMD*
486DX2/66	269	239
486DX2/80		249
486DX4/100	389	329



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Pentium 60/66	PCI, Built-In PCI EIDE with Fast I/O,256K Cache	459/479
▶ Pentium 75	PCI, 256K Cache, Intel Chipset, Built-in PCI IDE controller w/fast I/O, Made by Intel	629
Pentium 90	PCI, 256K Cache, Intel Chipset, Built-in PCI IDE controller w/fast I/O, Made by Intel	859
▶ Pentium 100	PCI, 256K Cache, Intel Chipset, Built-in PCI IDE controller w/fast I/O, Made by Intel	969

Save! Pentium 60MHz Motherboard With CPU **$450.00 Or Lower**
Cooling Fan Included

Hard Drives

WESTERN DIGITAL *Caviar*

Model	Size	Access	Price
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2540A	540MB	12MS	209
▶ 2730A	730MB	12MS	249
2850A	850MB	11MS	279
3100A	1GB	10MS	389
31200A	1.2GB	9MS	419

Seagate

ST3491A	428MB	12MS	IDE	169
▶ ST3655A	545MB	12MS	IDE	199
ST31220A	1GB	12MS	IDE	369
ST31200N	1.2GB	11MS	SCSI	529
ST11900N	1.7GB	9MS	SCSI	929

CONNER

CFP420A	420MB	10MS	IDE	169
CFP540A	540MB	10MS	IDE	199
CFP850A	850MB	10MS	IDE	269
CFP1060A	1.06GB	10MS	IDE	389
▶ CFP1275A	1.2GB	10MS	IDE	399

Combo Save! Conner/Seagate 420MB Hard Drive and Super IDE VLB Controller With I/O Ports **$189.00 Or Lower**

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Super IDE Card w/IO Ports	15
Super IDE ISA w/UART 16550	45
Super IDE Enhanced VLB w/IO Ports	25
Super IDE Enchanced VLB w/UART 16550	49
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SCSI/IDE VLB combo with Fast I/O	119

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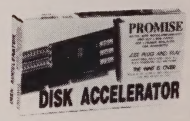
VESA Local Bus

DC2300 Plus 4IDE HD, 2 FD, *ENHANCED* 2 High Spd Ser, 1 Par, 1 Game	59
DC420VL *Caching* Up to 1MB w/512K 2 IDE, 2FD, 2 Ser, 1 Par, 1 Game	109
DC4030VL-2 *Caching* Up to 16MB w/0K 4 IDE, 2FD	109

Adaptec

Adaptec 1522A SCSI-2	89
2FDD/7 SCSI Devices	
Adaptec 2842KIT FAST SCSI-2	279
VLB, 2FDD, 7 SCSI Devices	
▶ Adaptec 2940, Fast SCSI-2. PCI	259



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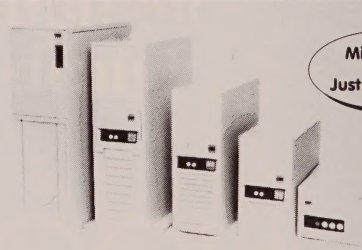

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Mini-Tower - 5 Drive Bays, 200 Watt, Digital	36
Desk-top Baby AT - 4 Bays, 200 Watt, Digital	40
Mid-Tower- 7 Drive Bays, 230 Watt, Digital	56
Full-Tower - 8 Drive Bays,250 W,Digital	74
Full-Tower - 8 Drive Bays, Digital, 275 Watt, Dual Fans	84
Mega-Tower - 10 Drive Bays, 300 Watt	159

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Mitsumi Quad Speed CD-ROM Drive Only
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True 16 Bit, 20 Voice STEREO, Supports Mitsumi, Sony & Panasonic CD ROMs, Software Bundle (for DOS & Windows)
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Sound Blaster AWE32 289
16 bit Audio, Wave Sample Synth., DSP Technology, Multiple sound effect.
Wave Blaster 169
MIDI Compliant wave sample synth add-on Board. Sampled sound, drim kits, more

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Mitsumi 250MS Double Speed CD
Stereo Speakers 4 W +4 W
Microphone, 14 CD ROM Titles

Micro-X Quad Speed Kit 275
Mitsumi Quad Speed CD-ROM
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15" SVGA 1280x1024 Low Rad .28DP .. 289
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1562GM 1280 X 1024 .28DP Green, MPR-II
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1765GM 1600 X 1280, .28DP Green, MPR-II

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Acumos SVGA W/256K 27
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Components

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Mitsumi 1.2MB, 5.25" 42
Mitsumi 1.44MB, 3.5" 29
TEAC 1.2MB, 5.25" 44
TEAC 1.44MB, 3.5" 33
Teac Dual Drive 5.25 & 3.5 89
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Keyboards

Mitsumi 101 Key 17
Focus 2001 w/cover 33
Focus 6000 Enhanced 28
Focus 7000+ w/Trackball 39
Focus 8000 w/Calculator 37
Focus 9000 Programmable 132 key ... 49

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250 MB Internal 149
350 MB Internal 164
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Trakker 250MB 289
Trakker 350MB 349
Tape Cartridge 15

CONNER

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16550 UART Built in, V.42 BIS, MNP 2-5
14.4/14.4 Send/Rec Fax-modem, Ext. 99
Up to 57.6 BPS throughput
14.4/14.4 Send/Rec Voice-Fax-modem 89
Supervoice 2.0 for Windows, Full Featured Voice Mail, Caller ID, Lifetime Warranty
28.8/14.4 Internal V.FAST 109
28.8/14.4 External V.FAST 149
115,200 BPS,V.42 BIS, MNP 2-5

U.S.Robotics

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24 PIN

KX-P2023 24 Pin LQ Quiet 159
KX-P2123 24 Pin LQ Quiet, Color Upgradeable 175
KX-P2124 24 Pin LQ Quiet, Color Upgradeable, LCD Display 229

LASER

KX-P4400 Laser, 4PPM, 1MB, Portable Size 369
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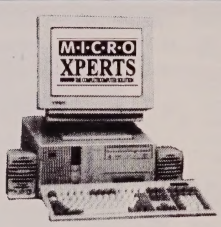

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To help you with your struggle to find "the perfect computer", we would like to introduce 9 systems configured with expandability and performance in mind. Micro Xperts offers todays state of the art computers while looking towards the future. All of our 486 motherboards are Pentium Upgradable, and 386 systems are easily upgradable to 486 technology.

The MX340D and MXSLC66V Systems offers you a smart, cost efficient way to handle everything from finance, database management and balancing the check book to playing games and educational programs for children, and when it is time to upgrade, you will have all the expansion room you will need.

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Power, Power, Power, coupled with incredible performance describes our Pentium Powered Systems. Whether you need the Raw Power that the Pentium Processor provides for those heavy database or intense graphics applications require, or simply need one of the fastest file servers available, Micro Xperts has the answer to the computing questions that always seems to "Boggle the Mind".

MX340D

386DX-40

- 4MB RAM
- 128K Cache
- 260 MB Hard Drive
- 1.44 MB Floppy
- SVGA Card w/512K
- 14" SVGA .39 DP Monitor
- 101 Keyboard
- 3 Button Mouse
- Mini-Tower Or
- Desktop Case

$779

Add Math Coprocessor $29.00

MXSLC66V

486SLC2-66

- 2VESA Local Bus Slots
- 4MB RAM
- 64K Cache
- 420 MB Hard Drive
- 1.44 MB Floppy
- SVGA Card w/512K
- 14" SVGA .39 DP Monitor
- 101 Keyboard
- 3 Button Mouse
- Mini-Tower Or
- Desktop Case

$879

Math Coprocessor Included

MXS250V

486SX2-50 VLB

- 3VESA Local Bus Slots
- ZIF, Green PC
- 420 MB Hard Drive
- 4MB RAM
- 1.44 MB Floppy Drive
- 32 Bit VLB SVGA Accelerator w/1MB
- 32 Bit VLB Controller Card
- 14" SVGA .28 DP Color Monitor
- 101 Key Board,Mouse
- Mini-Tower Or Desktop Case

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All Micro Xpert Systems come with a 5 Year warranty on labor and a Three year warranty on basic system components. Certain manufacturers warranties may be longer and apply through the manufacturer.

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We realize how important getting timely information is and maintain a staff of professional, well trained technicians to get you your answer to your questions, quickly, accurately and toll free.

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MX4420VLB

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- 420MB Hard Drive
- 1.44 MB Floppy
- 32 Bit VLB SVGA 1MB Accelerator
- 32 Bit VLB Controller
- 14" SVGA NI .28DP Monitor
- Desk Top or Mini-Tower Case
- DOS 6.22, Windows 3.11, Mouse

AMD DX2-66MHz **1049**
Intel DX2-66MHz **1079**
AMD DX2-80MHz **1069**
AMD DX4-100MHz **1139**
Intel DX4-100MHz **1229**

MX8540VLB

- 486 Green VLB Mother Board
- 8MB RAM, 256K Cache
- 540MB Hard Drive
- 1.44 MB Floppy
- 32 Bit VLB SVGA 1MB Accelerator
- 32 Bit VLB Controller
- 14" SVGA NI .28DP Monitor
- Desk Top or Mini-Tower Case
- DOS 6.22, Windows 3.11, Mouse

AMD DX2-66MHz **1249**
Intel DX2-66MHz **1279**
AMD DX2-80MHz **1269**
AMD DX4-100MHz **1339**
Intel DX4-100MHz **1429**

MX8540PCI

- 486 Green PCI/VLB Mother Board
- 8MB RAM, 256K Cache
- 540MB Hard Drive
- 1.44 MB Floppy
- 64 Bit PCI SVGA 1MB Accelerator
- 64 Bit PCI Enhanced IDE Controller
- Fast I/O w/16550 UART
- 15" SVGA NI .28DP Monitor
- Desk Top or Mini-Tower Case
- DOS 6.22, Windows 3.11, Mouse

AMD DX2-66MHz **1369**
Intel DX2-66MHz **1399**
AMD DX2-80MHz **1389**
AMD DX4-100MHz **1459**
Intel DX4-100MHz **1549**

Multi-Media Upgrades With System Purchase Only!

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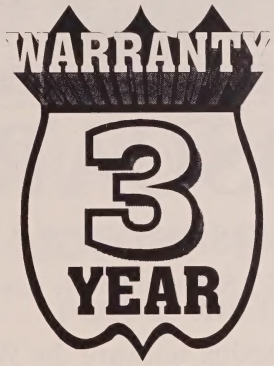
Micro-X Quad Speed Kit 269
Mitsumi Quad Speed CD-ROM Sound Booster Pro 16 Stereo Sound Card, Stereo Speakers 4 W +4 W Speakers, Microphone, 14 CD-ROM Titles



Same Day Shipping!

System Upgrade Options

Mid Tower Case **25**
Full Tower Case **40**
142Key Programmable KB **40**
96/24 Fax-Modem **25**
14.4/14.4 Fax-Modem **49**
250 MB Tape Backup **139**
Hard Drives
420 to 540MB **30**
540 to 850MB **80**
850 to 1GB **100**
Monitors
14" to 15" **95**
15" to 17" **280**
17" to 20" **500**
Video
1MB to 2MB **49**

MXP8540

- Pentium Green PCI Mother Board
- 8MB RAM, 256K Cache
- 540MB Hard Drive
- 1.44 MB Floppy
- 64 Bit PCI SVGA 1MB Accelerator
- 64 Bit PCI Enhanced IDE Controller
- Fast I/O w/16550 UART
- 14" SVGA NI .28DP Monitor
- Desk Top or Mini-Tower Case
- DOS 6.22, Windows 3.11, Mouse

Pentium 60MHz **1449**
Pentium 66MHz **1489**
Pentium 75MHz **1599**
Pentium 90MHz **1879**
Pentium 100MHz **1989**

MXP8850

- Pentium Green PCI Mother Board
- 8MB RAM, 256K Cache
- 850MB Hard Drive
- 1.44 MB Floppy
- 64 Bit PCI SVGA 1MB Accelerator
- 64 Bit PCI Enhanced IDE Controller
- Fast I/O w/16550 UART
- 15" SVGA NI .28DP Monitor
- Desk Top or Mini-Tower Case
- DOS 6.22, Windows 3.11, Mouse

Pentium 60MHz **1629**
Pentium 66MHz **1669**
Pentium 75MHz **1779**
Pentium 90MHz **2059**
Pentium 100MHz **2169**

MXP161000

- Pentium Green PCI Mother Board
- 16MB RAM, 256K Cache
- 1GB IDE Hard Drive
- 1.44 MB Floppy
- 64 Bit PCI SVGA 2MB Accelerator
- 64 Bit PCI Enhanced IDE Controller
- Fast I/O w/16550 UART
- 15" SVGA NI .28DP Monitor
- Desk Top or Mini-Tower Case
- DOS 6.22, Windows 3.11, Mouse

Pentium 60MHz **2029**
Pentium 66MHz **2069**
Pentium 75MHz **2179**
Pentium 90MHz **2459**
Pentium 100MHz **2569**

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• ONE ANTENNA DOES IT ALL • LOW SWR • WIDE BANDWIDTH • BUILT TO LAST • SHEER MOBILING ENJOYMENT

It's plug-n-play, mate!

Whether in the city

in the country

or backpack portable

OUTBACKER

Most user friendly all band HF antenna links your rig to the world.

- **Outbacker Classics** OB8: 6 ft. tall. 80-10m plus WARCs. 300 watts PEP. 3/8-24 thread. Ideal for all applications. OBS8: Same specs. Splits in two sections. Easy to store. OB8TRI: Same specs. Splits in three sections. Backpacker's delight. OB8HP: 500 watt PEP version. OBM: Ham/Marine combo. Popular Ham bands PLUS marine ITU bands.
- **Outbacker Perth** 7.5 ft. tall. 80-10m plus WARCs. 150 watts PEP. 3/8-24 thread. 3.5 ft. stinger retracts into 4 ft. mast for garaging or trunk storage. Superb performance. Perfect for trunk mounting. Low wind resistance.
- **Outbacker Jr.** OBJR8: 4 ft. tall. 80-10m plus WARCs. 150 watts PEP. 3/8-24 thread. Terrific for hatchback or roof mounting and RV's.
- **Custom Models** For MARS, CAP or any frequency combinations between 1.8-30MHz by special order. Call for info.

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Tech Talk Time 6-10pm EST

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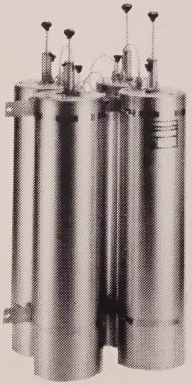
FOR 2 METERS

The TX RX Systems Inc. patented Vari-Notch filter circuit, a pseudo-bandpass design, provides low loss, high TX to RX, and between-channel isolation, excellent for amateur band applications. TX RX Systems Inc. has been manufacturing multicoupling systems since 1976. Other models available for 220 and 440 MHz, UHF ATV and 1.2 GHz.



19″ RACK MOUNT

MODEL 28-37-02A

144-174 MHz
92 dB ISOLATION AT 0.6 MHz SEPARATION
400 WATT POWER RATING

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DR-150T

FULL ACCESS MOVES YOU AHEAD

Engineered for Satisfaction. Alinco's DR-150T sets a new industry standard for 2 meter mobiles, featuring up-to-the-minute technology and a full-powered 50 watts. So advanced and yet so simple to use, the DR-150T will more than satisfy the needs of beginners and Ham veterans alike.

Channel Scope Sweep Scan

Enjoy visual scanning capability of multiple frequencies along with simultaneous receive audio!!!

While in the channel scope mode, activate the scan function and quickly access only those frequencies that show a strong signal indication. The DR-150T's "S-meter" squelch control has 8 adjustable settings for custom operation. With the DR-150's built-in band scan, program scan and memory scan modes, the radio may be set to stop on either a busy or a vacant channel. Also, the DR-150T gives you a visual display confirming the direction of the scan, a feature which adds to the overall user friendly construction that this rig has to offer.

New Safety Dialer

Alinco has specially designed the DR-150T for mobile-safe operation. The new Safety Dialer feature enables the operator with complete control of auto dial transmissions simply with the equipped remote mic. Depressing the PTT in conjunction with either the up/down buttons gives you simple and direct access preventing any distraction while driving.

Features

- ✻ Frequency Range
- ✻ Receive: 108.000 – 173.995 MHz (AM, FM) 440.000 – 449.995 MHz (FM)
  Transmit: 144.000 – 147.995 MHz (FM)
- ✻ Power Output
  High: 50 W, Medium: 25 W, Low: 10W
- ✻ Remote Control by Microphone
- ✔ Channel Scope (Visual Search)
- ✻ Various Scan Modes
- ✻ 100 Memory Channels plus 1 Call Channel Memory, 1 Program Scan frequency Memory
- ✔ LITZ Function Capability (The US First Emergency Alert Monitoring Feature)
- ✻ S meter Squelch Function
- ✻ Tone Burst Function
- ✻ Built in RF attenuator
- ✻ Built in 9600 bps/Phone Patch Interface
- ✻ Built in Tone Encoder (50 Tones)
- ✔ Safety Dialer (5 memory channels)
- ✻ DSQ Function
- ✻ Direct Frequency Entry from the DTMF microphone
- ✻ DTMF tone decoder
- ✻ 2 VFO's (A&B)
- ✻ TOT (Time Out Timer)
- ✻ Channel Display
- ✻ Tone Scan Function
- ✻ Air Clone
- ✻ Cable Clone

NEW INNOVATIVE FEATURES

NEW

Size: 5-1/2" W x 1-9/16 H" x 6" D

ALINCO ELECTRONICS INC.

438 Amapola Ave., #130, Torrance, CA 90501
Phone: (310) 618-8616 / Fax: (310) 618-8758

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NEW **DR-610T**

SIMPLY MOBILE

The New Alinco DR-610T Dual Band Mobile Transceiver

Designed for convenience. The DR-610T's Channel Scope gives you visual monitoring capability to keep you engaged in local frequency activities. A built-in duplexer and a new remote mount system provide you with flexible installation options with a readily detachable front head, and the optional EDS-1 accessory junction box containing both separate microphone and external speaker jacks.

Multi-Color Control Panel Display

A color-coded sequence of green and amber lights controlled by the function button illuminates the DR-610T's control panel indicating a change in your operational setting. The DR-610T clearly outshines the competition by giving you simple and direct access to complex dual band applications.

Efficient Memory Storage with a "5 Bank System"

The 120 memory channels that come standard with this new dual-bander are conveniently divided into 5 separate memory banks for Hams who traverse through multiple operating areas. Program up to a total of 240 channels with the optional Alinco accessory EJ-23U memory unit.

LITZ Emergency Alert System

To activate the Long Tone Zero (LITZ) emergency alert system, a repeater controller presses the touch tone "0" on his or her mic for a period longer than 3 seconds. The repeater will re-transmit this DTMF tone which will be decoded by the DR-610T's special LITZ decoder. A beep sound emits from the speaker repeatedly and the "Lit" icon will appear in the display until the station operator depresses any of the control panel keys.

Features

- ✻ Frequency Range
- ✻ Receive: 108.000 – 173.995 MHz (AM, FM)
  420.000 – 470.000 MHz (FM)
- ✻ Transmit: 144.000 – 147.995 MHz (FM)
  438.000 – 449.995 MHz (FM)
- ✻ Multiple Scan Functions
- ✻ Priority Function
- ✻ Mono Band Dual Receive(VxV) (UxU)
- ✻ 5 Channel Scope levels
- ✻ 50 CTCSS Tones, Encode standard, Decode available with the optional accessory EJ-24U Tone Squelch Unit.
- ✻ S-meter Squelch
- ✻ RF Attenuator
- ✻ APO (Automatic Power Off)
- ✻ TOT (Time Out Timer)
- ✻ 1200/9600 bps packet capable (GMSK type TNC required)
- ✻ AM Aircraft RX Standard (No modification required)
- ✻ Full Duplex with odd split operation
- ✻ Sub-band Mute function
- ✻ 3 Power Output Levels (VHF/UHF Independent)
- ✻ DSQ (Digital Squelch)
- ✻ Beep function
- ✻ Key lock function
- ✻ Built-in Duplexer
- ✻ Remote Microphone Control Application
- ✻ Bell Function
- ✻ Tone Burst Function
- ✻ LITZ Function
  (The US First Emergency Alert Monitoring Feature)
- ✻ MARS/CAP Modifiable (Proper FCC licensing required)

This device has not been approved by Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased until the approval of the FCC has been obtained.

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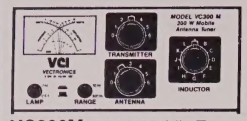
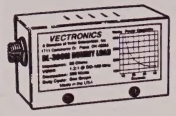
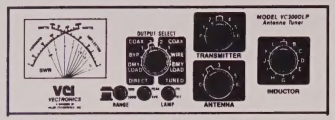


VC300M 300W Mobile Tuner

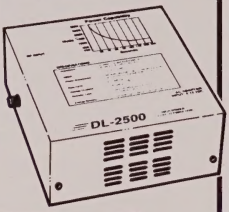


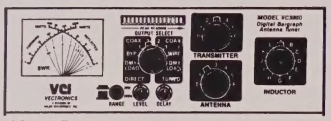
DL300M
300 Watt, 150 MHz, Dry Dummy Load



VC300DLP 300W Antenna Tuner

DL2500
2500 Watt, 150 MHz, Dry Dummy Load

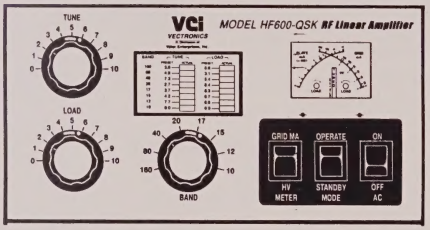




VC300D 300W Digital Antenna Tuner

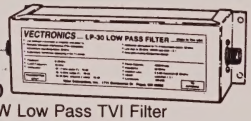
HFT1500 1500W Antenna Tuner

DL650M
1500 Watt, 650 MHz, Dry Dummy Load



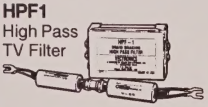
HF600QSK
1kW HF RF Linear Amplifier with built-in QSK. (Also available: **VECTOR 500** 1000W PEP Linear Ampl.)

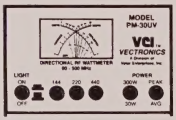
CK200 Deluxe CW Keyer



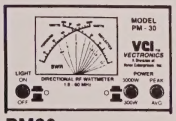
LP30
1500W Low Pass TVI Filter
(Also available: **LP2500**; 2500W Low Pass TVI Filter)

HPF1
High Pass TV Filter





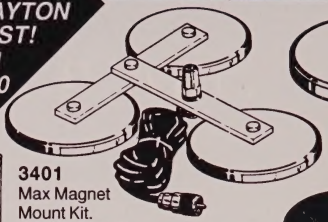
PM30UV
30W/300W Wattmeter



PM30
300W/3kW Wattmeter

AT100
Mobile Active Antenna/Tuner

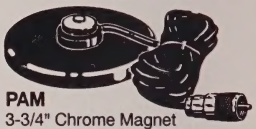
We also have 13.8Vdc Power Supplies



3401
Max Magnet Mount Kit.
(Black: **3401B**)

401
5" Chrome Magnet Mount Kit. (Black: **401B**)

401BSO
SO-239 Black 5" Magnet Mount Kit.

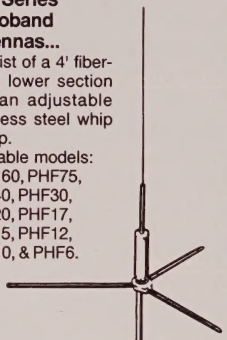


PAM
3-3/4" Chrome Magnet Mount Kit. (Black: **PAMB**)

PAM2
3-1/4" Chrome Magnet Mount Kit. (Black: **PAM2B**)

PAM4
5" Chrome Magnet Mount Kit. (Black: **PAM4B**)

PHF Series Monoband Antennas...
Consist of a 4' fiberglass lower section and an adjustable stainless steel whip on top.
Available models: PHF160, PHF75, PHF40, PHF30, PHF20, PHF17, PHF15, PHF12, PHF10, & PHF6.



MM450B
MICRO-MAG® Mobile Antenna. 440-450 MHz.

AB5
Complete 5 band HF Mobile Antenna System w/ resonators for 10, 15, 20, 40, and 75 meters.

GM144
Glasmaster™ Glass Mount Antenna; 144-148 MHz.

MM144B
MICRO-MAG® 2 Meter Mobile Antenna. 144-148 MHz.

GM270
Dual Band Glasmaster™ Glass Mount Antenna. 144-148 and 440-450 MHz.

NEW

MM3B
The MICRO-MAG® Portable Scanner/Tri-Band Antenna transmits at 144-148 MHz (2m), 440-450 MHz (UHF), and 824-896 MHz (Cellular), and receives in the range of 100-1200 MHz.

MM270B
MICRO-MAG® Dual Band Antenna. 144-148 and 440-450 MHz.

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FRIDAY

7:00 -**CONTEST SUPER SUITE**

Stouffer Renaissance Hotel, Miami Room (2nd Floor at 7 p.m.)

Sponsored by the North Coast Contesters and the Frankford Radio Club. Large ballroom suite (room for 400 Contesters and DXers). Cash bar.

7:00-**QCWA DINNER** - QCWA-OOTC

Banquet at Alex's Continental Restaurant, I-75 Exit 44, 1/3 mile west on St. Rt. 725. C.O.D. bar at 7:00 p.m. and dinner at 7:30 p.m.

Advance reservations required. Program will be "Key to the Success of the Wright Brothers". QCWA membership is not required.

7:00 -**THE PACKET BASH**

TJ's Restaurant, 2462 Dryden Road

Sponsored by TAPR and the Miami Valley FM Association. A chance to meet with digital radio enthusiasts from around the world. Buffet dinner, speaker, raffle, TAPR NetSIG Meeting. Stop by the TAPR Booth (Booths 542 and 543) for more information.

7:15 -**DX DINNER (9th Annual)**

Stouffers Renaissance Hotel (across from the Dayton Convention Center) Displays and cash bar at 6:30, dinner at 7:15 p.m.

Sponsored by Southwest Ohio DX Association. Advance reservations are required. Join us for a dinner with big guns and little pistols, then visit the many DX hospitality suites in the hotel afterwards!

7:30-**FISTS INTERNATIONAL CW CLUB**

Stouffer Renaissance Hotel, Windows Lounge, from 7:30 - 9:30 p.m.

An informal get-together for members of FISTS International CW Club and all others interested in promoting CW operation. All are welcome!!

7:30-**SSTV GET TOGETHER**

Holiday Inn North, 2301 Wagner Ford Road

Tom Hibben, KB9MC, and Don Miller, W9NTP, will host. Several simultaneously operating SSTV systems will be on display for demonstration or audience participation the entire evening. Many experts will be present to answer your personal questions on new SSTV systems and improvements. IVCA will again operate Booth 212 at the Arena with several SSTV systems operating during the entire convention.

8:00-**WESTERN NEW YORK DX ASSOCIATION**

Stouffer Renaissance Hotel Hospitality Suite, Room 325 from 8 p.m.

Drop by for an eyeball with the Big Guns and Little Pistols. Everyone is welcome.

8:00-**SOCIETY OF MIDWEST CONTESTERS**

Stouffer Renaissance Hotel, Room 1201, 8:00 p.m. until ??

SATURDAY

6:00-**SATURDAY MORNING BREAKFAST**

Shiloh Church, two minutes from Hara Arena at N. Main Street (Rt. 48) and Philadelphia Drive. (Serving from 6:00 a.m.) From Hara Arena, take Shiloh Springs Road east to the traffic light at Main Street, turn right and go south one block to Philadelphia Drive. Turn right on Philadelphia Drive and enter parking lot at the second entrance on the left. Follow the signs.

Complete breakfast including sausage, coffee, milk, orange juice and all the pancakes you can eat - for $5.00. Breakfast starts at 6:00 a.m.

1:00-**FIREBIRDS ARC MEETING**

Meadowdale High School Auditorium

"Treasurer's Report" by Brooks Grooms, N9AZK, Treasurer. President Bill Hope, KD4IJK will moderate. "Net Control Guidelines" will be presented by Mel White, KB8RM, Vice President. Free shuttle bus from Hara Arena. Special frequent bus schedule from 12:30 p.m. to 1:00 p.m. and 2:30 p.m. to 3:00 p.m.

6:00-**ANNUAL LAMBDA MEETING**

EconoLodge Conference Room, 2221 Wagner Ford Road, Dayton, Ohio

6:00- **E. A. R. S. (Evansville, Indiana)**

"Eating Meeting"
Skyline Chili, Sharon Road, Sharonville, Ohio, (North suburban Cincinnati) 6:00 p.m.

For members and interested amateurs in E.A.R.S. Wide Area Repeater System Group. Talk-in on 145.15 simplex.

6:30-**CONTEST BANQUET (3rd ANNUAL)**

Stouffer Renaissance Hotel, Miami Room (2nd Floor)

Hosted by the North Coast Contesters, The Frankford Radio Club and other contest clubs. Seating is limited.

Unofficial Functions, continued

7:00 - **CONTEST SUPER SUITE**

Stouffer Renaissance Hotel, Miami Room (2nd Floor at 7 p.m.)

Sponsored by the North Coast Contesters and the Frankford Radio Club. Large ballroom suite (room for 400 Contesters and DXers). Cash bar.

7:30 - **WEATHER SATELLITE MEETING**

Holiday Inn at I-675, 2800 Presidential Drive, between I-675 & Colonel Glenn Highway. Opposite Wright State University. Fairborn, Ohio

Hosted by the Dallas Remote Imaging Group. Meet the WX forum speakers and see more details on direct reception of weather sat images. Limited seating - 100 seats.

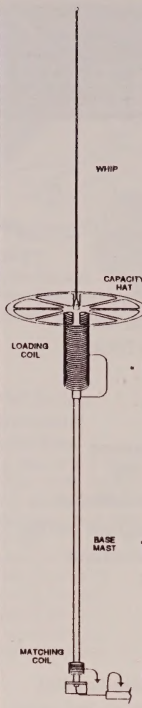
7:30 – **TAPR BBS SIG & "BIRD OF A FEATHER"**

Location to be announced

Check at TAPR Booths 542 and 543 for details.

8:00 - **ANNUAL LAMBDA ARC CLUB BANQUET**

Bombay Bicycle Club, 3700 North Dixie Drive (1 block west of EconoLodge)



Texas BugCatcher

"The SERIOUS HF Mobile Antenna"

HF MOBILE ANTENNA SYSTEM

BY

GLA SYSTEMS

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Caddo Mills, Texas 75135

- **3" Diameter 12 Gauge Wire HI-Q Coils**
- **4" Diameter 12 Gauge Wire Very Hi-Q Coils**
- **6" Diameter 10 Gauge Wire "SUPER HI-Q" Coils**
- **All Parts Have Standard 3/8-24 SAE Threads**
- **All Corrosion Resistant Materials**
- **Easily Tuned On All HF Bands**
- **3 to 30 Mhz Operation**
- **Exclusive Hexagon Stainless Steel Coil End Connecters**

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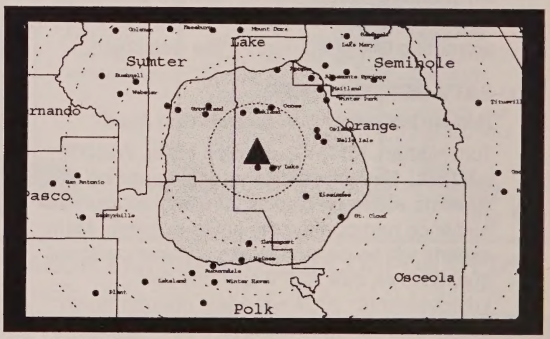

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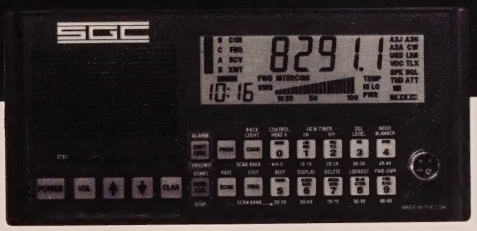

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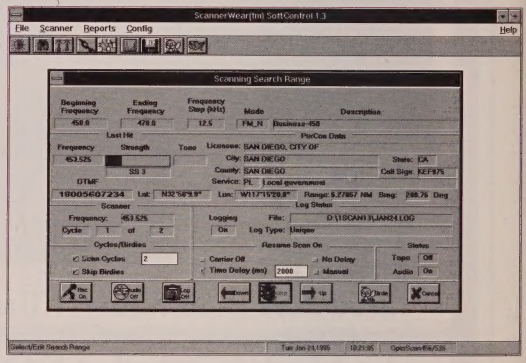

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NAME J. MARTINO
VESSEL NAME: AFRICAN ROVER
ADDRESS SEE BELOW
TELEPHONE
MODEL SG-230 SERIAL NBR 0A90484 VOLTAGE 12V
PURCHASED FROM SGC
DATE PURCHASED: 1 MAY 89 DATE INSTALLED 1 DEC 89
INSTALLED BY J. MARTINO (OPERATOR)
CAPE TOWN DEPT OF STATE WASH DC 20521
PERFORMANCE INFORMATION
LENGTH OF TIME TO INSTALL: 5 hrs (WITH COPPER STRIP GROUND PLANE)
WAS SATISFACTORY TEST CALL MADE? YES
DISTANCE COMMUNICATED: USSR/JAPAN/N.Z. AMATEUR RADIO USING SAILBOAT BACKSTAY
Circle One
INSTALLATION Simple Difficult
TUNING Simple Difficult
TEST CALL Good Fair Poor
VOICE QUALITY Good Fair Poor
YOUR COMMENTS WHAT CAN I SAY! FIRST CONTACT NEAR MOSCOW S-5
SMARTUNER INSIDE

MICROPROCESSOR CONTROLLED • NON-VOLATILE MEMORY • WATERPROOF • B.I.T.E. INDICATOR • 1.8 TO 30 MHZ RANGE
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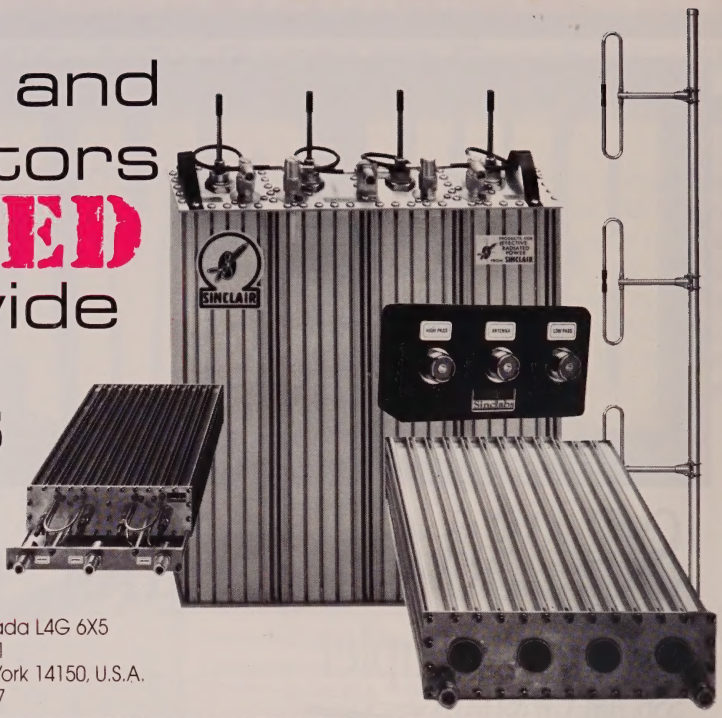

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See Demo at Dayton - Booths 307 & 308

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Power Output:	
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AM:	**250 watts Carrier max.**
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Protection:	**Input overdrive, Over current, Over temperature**

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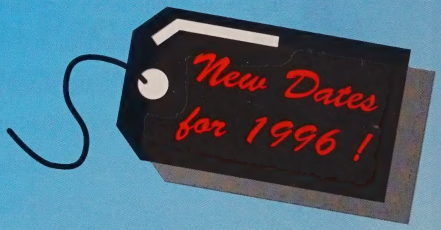

Dayton Hamvention® would like to invite you back in 1996!

The dates next year will be May 17, 18, 19, 1996.

Same location - Hara Arena.

We enjoyed having you!

Air Force Museum

The world's largest military aviation museum with over 10 acres of aircraft and other exhibits under roof is a free attraction which is family oriented and includes nearly 300 aircraft and rockets such as the Sopwith Camel, the B52 and B-1A bombers and the F117A "Stealth Fighter", as well as the Apollo 15 space capsule which circled the moon in 1971, plus more than 6,000 personal artifacts, documents, photographs and mementoes of Air Force history from the early 1900's. Free historical movies are shown daily in the museum's 500 seat Carney Auditorium. Also available for your convenience are an extensive gift shop, bookstore, cafe and picnic shelters.

The giant screen IMAX Theatre will put you in the heart of the action. It's "the next best thing to being there". Films shown are "Destiny in Space" (prepare to explore the universe) shown at 11,1, 3 and 5 (40 minutes), and "To Fly" (the ecstacy of flight with the Blue Angels, and a magnificent hot air balloon flight) shown at 12 noon, 2, and 4 p.m. (30 minutes).

IMAX admissions are $5 Adults, $4.50 Sr. Citizens, $3.50 students, and $2.25 ages 2 to 7. Hours of operation are 9:00 a.m. to 5:00 p.m. daily. The facilities are also very accessible to those with disabilities. Free shuttle bus from Hara Arena.

Northeast of Dayton on Wright-Patterson Air Force Base 255-3284 for Museum and 253-IMAX for IMAX information.

Take I-75 to Exit 58. Take Needmore Road (Wright Brothers Parkway) east 6 miles to Springfield Pike exit. Turn right at the bottom of the ramp onto Springfield Pike. Museum is on the right.

Take I-70 to Exit 41 (SR 4). Take SR 4 south 6.5 miles to Harshman Road exit. Turn left at the bottom of the ramp onto Harshman Road (Wright Brothers Parkway) and travel 1 mile to Springfield Pike exit. Turn right at the bottom of the ramp onto Springfield Pike. Museum is on the right.

Aullwood Garden

Aullwood Garden is a 32 acre park which offers the visitor a walk through a lovely area of blooming plants in a wide variety of species and colors to please your senses. Open daily from 8:00 a.m. to 7:00 p.m., the Gardens are located at 900 Aullwood Road which is close to the Englewood Reserve.

North of Dayton near Englewood Reserve. Take I-70 to Exit 29 (SR 48).

Take SR 48 north to US 40. Turn right onto US 40 and cross the dam. Park in the Englewood Reserve parking lot at the east end of the dam. Be careful crossing the road and walk 200 yards down Aullwood Road, past Aullwood Audubon Society, to Aullwood Gardens.

Aviation Trail/Wright Cycle Company

Aviation Trail /Wright Cycle Company welcomes you to Wright-Dunbar Village, the home of Orville and Wilbur Wright, the fathers of aviation, and Paul Laurence Dunbar, the poet who charmed the world with his lyric genius. As teenagers, the Wrights published the early poems and essays of Paul Laurence Dunbar, who was a classmate of Orville's and a friend to both brothers. Dunbar left this area behind as he gained national and world reknown. By 1900, Dunbar was a world figure whereas, outside of Dayton, only a handful of glider enthusiasts knew of the Wrights. Orville and Wilbur Wright began their careers as printers while still in school, but after graduation they entered the bicycle business and finally, aviation. You will be stepping directly into history as you walk upon the original floors where Orville & Wilbur did their planning and building. Exact replicas of the machinery used by the brothers is on the site, as well as original bicycles from that era. They had seven printing press businesses, five bicycle shops, and three buildings where they worked on the airplane.

Near downtown Dayton west of I-75. 443-0793. 10-4 Saturday, Noon to 4 Sunday. National Historical Landmark.

Take I-75 to Exit 53 A/B (Third Street). Take Third Street west over the river 0.5 mile to Williams Street. Turn left onto Williams Street. Wright Cycle Shop is one short block on the left.

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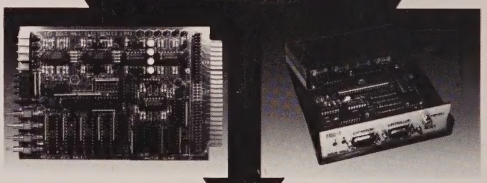

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CARILLON HISTORICAL PARK
DAYTON, OHIO

Carillon Historical Park

The Park will be opened for Hamvention visitors on Sunday, April 30, from 12:00 noon to 6:00 ($1.00 admission for Adults). Children free.

The Carillon Historical Park houses a unique collection of historical buildings and exhibits which tell the story of the development of Dayton and the Miami Valley. Among the most noteworthy in this collection are Wilbur and Orville Wright's first practical airplane, antique Dayton-made automobiles including a 1912 Cadillac first equipped with Charles F. Kettering's self-starter, a replica of the Wright Bicycle Shop, a Barney and Smith wooden railroad car, a functioning 1930 letter press Print Shop, a section of the Miami/Erie Canal, and Dayton's first log building. The beautifully kept grounds with tree shaded areas are an enticement to picnickers. Pack a lunch and enjoy nature at its best. Plan time in your visit to see, and hear, the Carillon Tower which houses exposed bells which are played at different times throughout the day.

Just south of downtown Dayton. 2001 S. Patterson Blvd. 293-2841.

Take I-75 to Exit 51 (Edwin C. Moses Blvd). Take Edwin C. Moses Blvd. east 0.9 mile to Stewart Street. Turn right onto Stewart Street and cross the bridge. Turn right at end of the bridge onto Patterson Blvd. Carillon Park is 0.6 mile on the right.

Carriage Hill

The Park District's Carriage Hill Farm is a living historical farm recreating the lifestyle of a conservative farming family of the 1880's. Watch the draft teams and farm hands prepare the fields for planting. (Sunday, April 30, Weather Permitting). The sulky plow, disk and springtooth harrow turn and smooth the soil just as they did a century ago.

Many craft items are for sale in the Country Store so you can take home a memory of the day you touched the past. Watch the blacksmith do his craft, go on a hayride (50¢ per person), take a stroll through the lovely grounds, and be sure to see the exhibit at the Visitors Center. Spend a relaxing day at Carriage Hill Farm from 1:00 p.m. to 5:00 p.m. Saturday and Sunday, and from 10:00 a.m. to 5:00 p.m. weekdays.

North of Dayton and I-70. 7860 Shull Road. 879-0461

A donation would be greatly appreciated. Take I-70 to Exit 38 (SR 201). Take SR 201 north 0.5 mile to Shull Road. Turn right onto Shull Road and follow the signs.

Dayton Museum of Natural History

The $4 million structure boasts many new attractions including a hands-on learning center for grade school through junior high, a physical science "Doing the Wave" display on wave phenomena, which includes demonstrations on light, objects, sounds, and radio waves, Bio-Ohio, Wild Ohio Zoo, a learning center for pre-schoolers, a computerized Digistar Planetarium which creates spectacular three dimensional effects, and a special exhibit which includes an audiovisual presentation in the Sun Room. Visit on Friday from 9 a.m. to 9 p.m., Saturday from 9 a.m. to 5 p.m., and Sunday from 12 Noon to 5 p.m. A nominal fee of $3.00 for adults, $1.50 for persons 3 - 16 years of age and $2.50 for Seniors is charged. The planetarium is an additional $1.00 per person. Children 2 and under are admitted free.

Just north of downtown Dayton. 2600 DeWeese Parkway. 275-7431

Take I-75 to Exit 58 (Needmore Road). Take Needmore Road 1.5 miles west to Riverside Drive. Turn left onto Riverside Drive and go 1.3 miles to Siebenthaler Avenue. Turn left onto Siebenthaler and cross the river. Immediately turn right onto DeWeese Parkway. The museum is 0.6 mile on the left.

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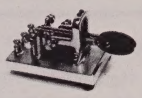

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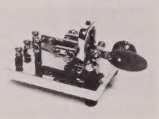
Brass Racer EK-1

and Tomorrow



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Fairgrounds flea market open for set-up at 6 a.m. Friday. Programming and exhibits start Saturday at 8:30 a.m. Hotel activities begin Friday afternoon.

Hotel headquarters: Rochester Marriott Thruway Inn. Call hotel reservations direct 716-359-1800. For reservations at other hotels, call Hamfest offical travel agent, Gallery of Travel, 800-724-2046.

Exhibit space inquiry: Call Hamfest office during business hours 716-424-7184 or write Rochester Hamfest, 300 White Spruce Blvd, Rochester, NY 14623, Fax 716-424-7130

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Dayton Art Institute

Founded in 1919, the Dayton Art Institute opened at its current location in 1930. The Italian Renaissance building is listed on the National Register of Historic Places. The classic structure provides a unique home for internationally-known collections including the outstanding Art of Our Time contemporary collection, European and American paintings and scultpure, an exceptional Asian wing, and notable collections of decorative arts, textiles and graphic arts. Elevators and ramps make all public areas of the Dayton Art Institute accessible to the handicapped.

Downtown Dayton west of I-75. Forest and W. Riverview Avenues. 223-2411 (recording). 223-5277. 7 days a week 9:00 a.m. to 5:00 p.m.

Take I-75 Southbound to Exit 54A (Grand Avenue). At the second light, turn left onto Forest Avenue. Turn right onto Belmonte Park North to the parking lot on the right.

Take I-75 Northbound to Exit 53B (First St./Salem Avenue). Turn left at the light at the bottom of the ramp and cross the bridge. At the light at the end of the bridge, turn right onto Riverview Avenue. Go three blocks and turn left on Belmonte Park North. Turn right into the parking lot.

Cox Arboretum

Located on 164 acres, with 85 of those acres being cultivated and offering many trails in natural woods for the hiking enthusiasts. Stroll through a landscaped shrub garden to see demonstrations on plantings of nuts, fruits, herbs, vegetables. You will also find a large array of bulbs in bloom, two large ponds where the ducks are eager to munch on bread cubes, and a Visitor's Center offering a display on horticulture, as well as a gift shop. The grounds are available to you from 8:00 a.m. until dusk, while the Visitors Center is open Monday-Friday 10:00 a.m. to 4:00 p.m., and on Sunday from 1:00 p.m. to 4:00 p.m.

South of Dayton near the Dayton Mall. 6733 Springboro Pike (SR 741). 434-9005

Take I-75 to Exit 44 (SR 725). Take SR 725 east 0.3 mile to SR 741 (Springboro Pike). Turn left onto SR 741. Cox Arboretum is 1 mile on the left.

Sunwatch

TWELFTH CENTURY INDIAN VILLAGE

800 years ago they waited and watched for the sun to rise behind the sacred pole and cast the long shadow. Only then would the time be right. Research over a period of 17 years has uncovered an amazing array of artifacts depicting the social life of the 12th century. Find out how the 800 year old lodges were reconstructed from archaeological evidence and visit the interior of a reconstructed lodge. A nominal admission fee of $4.00 for Adults and $3.00 for children ages 6 to 16 is charged. Under 6-Free.

Near downtown Dayton west of I-75. 2301 West River Road. 268-8199. 9-5 Mon - Sat. Noon - 5:00 p.m. Sunday.

Take I-75 to Exit 51 (Edwin C. Moses Blvd.). Take Edwin C. Moses Blvd/Nicholas Road west 1.3 miles to West River Road. Turn left onto West River Road. Sunwatch is 1.0 mile on the right.

Glen Helen/Clifton Mill/ Ye' Old Tavern

YELLOW SPRINGS, OH.

Glen Helen Trails is a 1000 acre nature preserve located on the Antioch University College campus where you can enjoy a nature lodge, beautiful wildlife, vegetation and rock formations. Clifton Mill is a restored operating grain mill. Tours are available. Ye Old Tavern is a restored operating turn-of-the-century tavern. There are also many unique shops and restaurants in Yellow Springs.

South of Springfield at Yellow Springs and Clifton.

GLEN HELEN — Take I-70 east to Exit 52A (SR 68). Take SR 68 south 7 miles to the first stoplight in Yellow Springs. Turn left and look for Glen Helen 2 1/2 blocks on the left.

YE' OLE TAVERN — Take I-70 east to Exit 52A (SR 68) Take SR 68 south 7 miles to Yellow Springs. Look for the Tavern.

CLIFTON MILL — Take I-70 east to Exit 54 (SR 72). Take SR 72 south 6 miles to Clifton. Look for signs to Clifton Mill.

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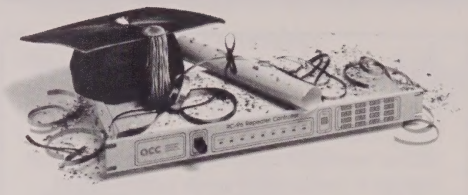

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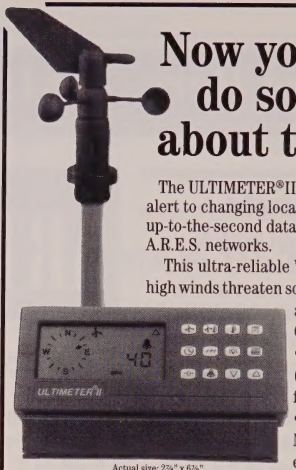

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See the new W9GR digital signal processor kit at our booth! The DSP-III offers CTCSS & DTMF decode, 7 tunable CW filters, filters for special modes (FSK, SSTV, etc.), and improved noise (QRN) reduction and heterodyne removal modes. DSP kits can be ordered from Quantics, Box 2163, Nevada City, CA 95959, USA

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SEE US IN BOOTH 302.

International Women's Air & Space Museum

Woman's place in aviation started long before the so-called "women's movement" of recent years. In fact, did you know that Napoleon appointed a woman, Madame Blanchard, as his Chief Air Minister of ballooning in 1804. Katharine Wright, although not a pilot herself, was a very powerful force in the encouragement of the Wright Brothers' advancement in aviation. Over 15 years ago the idea of preserving the history of women in aviation was a dream. Since then memorabilia and historical artifacts have been collected, preserved and stored, making this initial dream a reality today. The museum is open to the public from 10:00 a.m. to 4:00 p.m. on Saturday. Tours through the Museum Wednesday through Friday by appointment.

South of Dayton and east of the Dayton Mall. 26 North Main Street, Centerville. 433-6766

Take I-75 to Exit 43 (I-675) . Take I-675 to Exit 4 (SR 48). Take SR 48 south 1.0 mile to the museum on the northeast corner of the intersection of SR 48 (Main Street) and SR 725 (Franklin Street).

The Citizens Motorcar Company

Featuring restored and original Packards, this 1930's art deco showroom is a visit you'll never forget! For dedicated car enthusiasts, you'll be surrounded by Packards which have been shined to perfection and proudly displayed. Take a stroll through a restored service area which contains original parts and accessories.

The Packard Museum hours of operation are Monday - Friday, Noon until 5:00 p.m. and on Saturday and Sunday from 1:00 p.m. until 5:00 p.m. Admission is $3.00 Seniors/Students $1.50. Group tours may be arranged by appointment.

Phone (513) 226-1917.

420 South Ludlow Street, Dayton, Ohio

Old Tippecanoe City Restoration Area

Whether you have an hour or a day, an interest in art, antiques and collectibles, or just enjoy shopping, Historic Tipp City is a must! This 1840's Miami-Erie Canal town offers hours of pleasure browsing the selections of over 50 antique dealers, 15 or more speciality shops in the renovated 1850's Old City Hotel, historical museum, art galleries and exhibits, and excellent dining opportunities. You might want to stop first at the TIPPECANOE AND TYLER TOO! VISITORS CENTER at 12 E. Main Street where friendly folks will provide you with information on this town formerly called "Tippecanoe". As you browse the specialty shops in the Hotel Gallery, you'll be amazed at the size of the rooms compared to your current lodgings - no king-sized beds could fit in these cozy spaces! You can revel in history as you sip coffee and join in the merriment at the Potter's House Cafe.

You'll also discover handcrafted reproductions, an old canal lock at Tipp Roller Mills, many other shops offering everything from pipes and a blending bar to over 50,000 gently used books. Historic Tipp City invites you to poke, prod and seek out the many interesting aspects of this unique community.

Take Northbound I-75 to Exit 68 (SR 571) at Tipp City. Turn onto SR 571 and go 1.0 mile east to the shops of Old Tippecanoe City.

Oregon Historic District

Once slated for the wrecking ball, this unique settlement of Dayton's oldest neighborhood began in 1829, coinciding with the opening of the Miami-Erie Canal and is now a haven of specialty shops, bookstores, record and music shops, as well as a unique blend of dining establishments. Located a block from the Convention Center, the intricate architectural details of another century are a charming setting for a relaxing stroll along cobblestone streets where you may wish to sip coffee at an outdoor cafe. Eyecatching details adorn the eight square block neighborhood, with its Victorian porches and limestone walks. The historic character of the business district gives it a unique tone with period signs that spotlight the diverse enterprises. This vital compact area is bounded by a developing business section that by day offers an urban mix of commerical businesses, and by night is transformed into a lively entertainment center.

For more information on the business community, call the Oregon Business Associaton at 228-2880.

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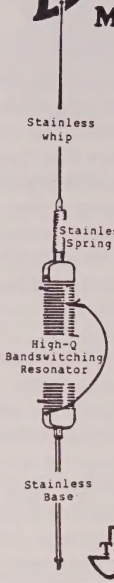

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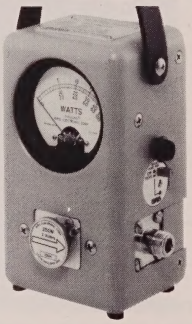

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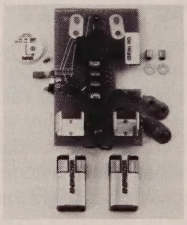

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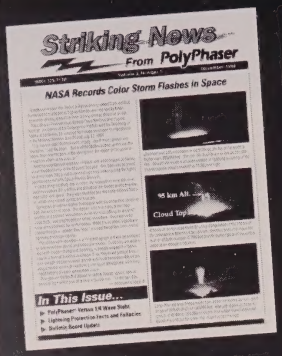

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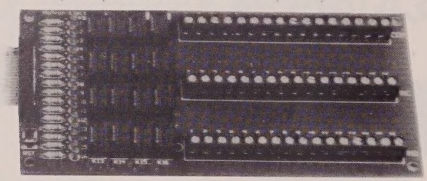

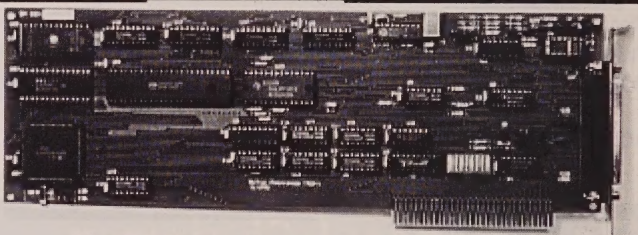

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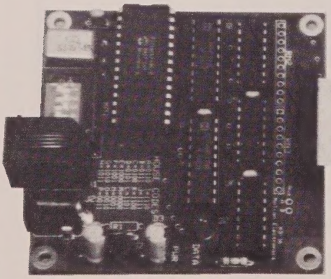

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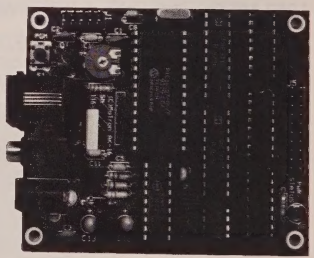

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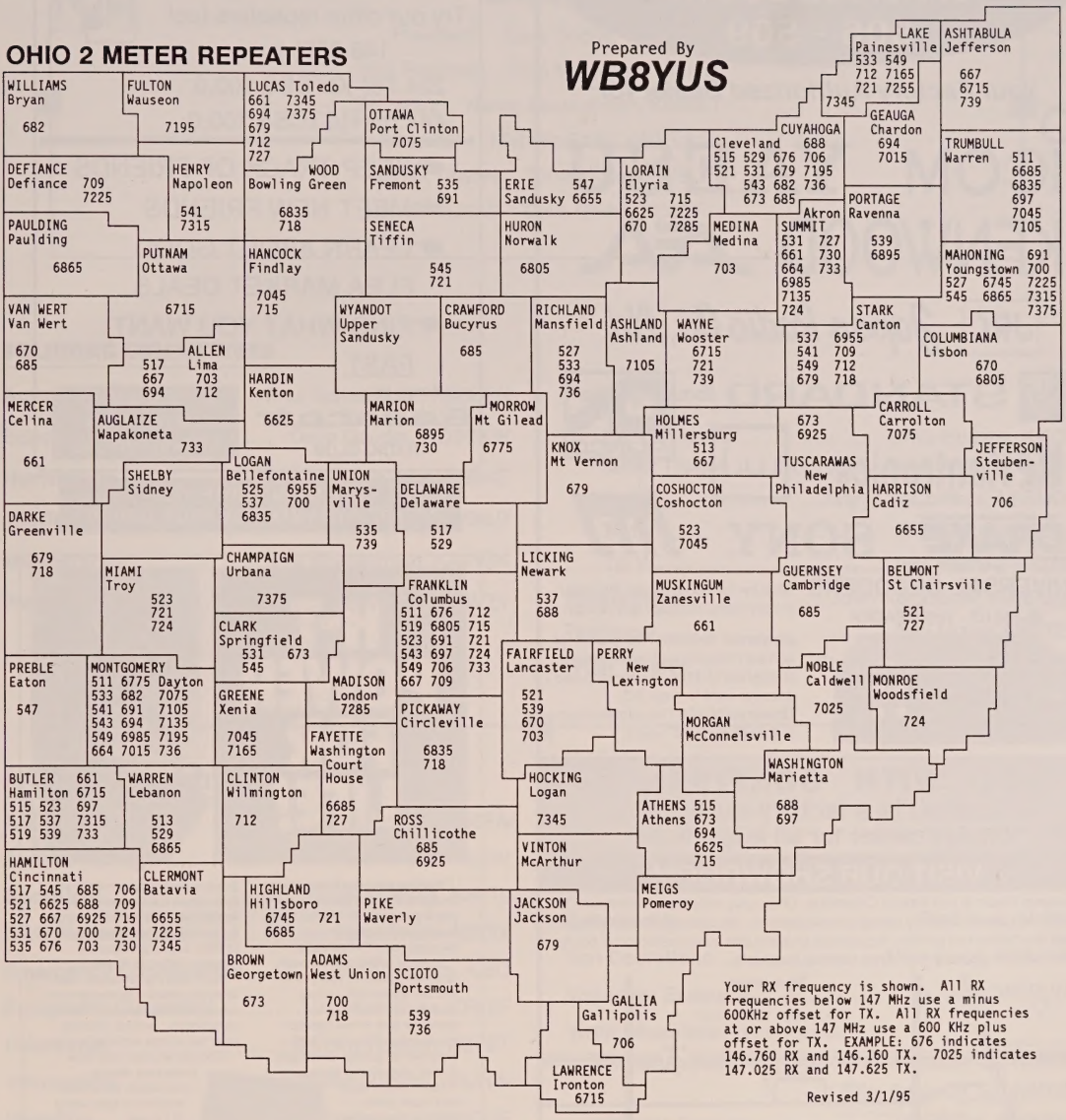

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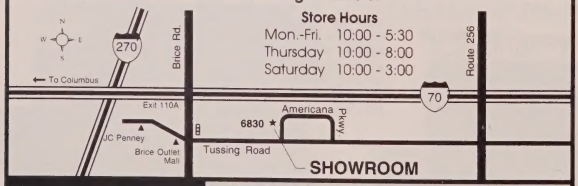

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Awards Manager.....Jeff Everetts, N8IBW
Bookstore.....Hazel Everetts, N8PTL
Club Station.....Steve Webb, N8DIX
Emergency Coordination.....Ernie Hudson, KI8O
Equipment Custodian.....Ken Coss, KF8EF
Fellowship.....Dorothy Hudson, N8VET
Information.....Shirley Roberts, N8JHW
Newsline.....Charlie Cotterman, KA8OQF
Parliamentarian.....Gary DesCombes, N8EMO
Red Cross EOC.....Ernie Hudson, KI8O

RF-Carrier

Editor.....Jim Nies, WX8F
Assistant Editor.....Dave Morris, N8EEK

Scholarship.....Stan Kuck, NY8F
Van Operations.....Mike Priest, KB8JUA
Volunteer Exams.....L. T. Jones, W8RLW

W8BI Repeaters

2 Meter Repeater.....Gary Seebach, Jr., N8RIY
Gary Seebach, Sr., N8RIZ
220 MHz Repeater.....Dan Stiles, KB8HMI
440 MHz Repeater.....Tom Holmes, WB8QVC
ATV Repeater.....Dave Forbes, KD8FO
Packet BBS.....Rich Malafa, N8MRX

Youth Programs.....Bill Weaner, KB8BKW

Prize Donors

A
A2Z Computers
AMSAT
AMSOFT
ANLI CORP.
Allen Telecom Group
ARRL: American Radio Relay League
Amateur Radio Trader
Antennas West
Atlantic Solar Products
Audio Amateur Publications
Azden Corp.

B
Bearcat Radio Club
Bonneville Music

C
C3I Command and Control Consulting
Cable X-Perts, Inc.
Coaxial Dynamics Inc.
Communication Concepts, Inc.
Compustuff
Computer Bug
Crazy Bob's
Custom 4-U

D
D&L Antenna Supply
Down East Microwave

E
EIE Engraving
Electro Tool, Inc.
Electronic Rainbow, Inc.
Elenco Electronics, Inc..
Englehaupt Embroidery
EQF Software
ERM, Inc.

G
GAP Antenna Products
Glen Martin Engineering
Gordon West's Radio School, Inc.

H
Ham Radio Bookstore
Ham Station, Inc.
Heil Sound, Ltd.
Highland Microcomputer Corp.
Hi-Res Communications, Inc.
Hustler, Inc.

I
IDE: Innovative Digital Equipment, Inc.
International Radio & Computers, Inc.

K
K-Com
K1EA Software
KLM Antenna Inc.

L
Larson Electronics, Inc.

M
M^2 Enterprise
MCM Electronics
MFJ Enterprises
MaxRad Inc.
MAX System Antennas
Mini-Circuits Lab
Mendelson Electronic Co., Inc.
Michigan Radio
MicroXperts Computer Center
Midland International Corp.
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N
Nemal Electronics, Inc.
NCG/Comet Antenna
National Tower Co.
Mr. Nicad/E.H. Yost & Company
NCG/Comet Antenna
Nuts & Volts Magazine

O
OPTOelectronics, Inc.
Outbacker Antenna Sales

P
P.C. Electronics
Paccom Packet Radio Systems
Peet Bros. Co.
Percon
Periphex, Inc.
Prosoft Plus Amateur Software

R
R & L Electronics
R.F. Connection
Radio Bookstore
Radio Control Systems, Inc.
Radio Shack
Radio Society of Great Britain
RT Systems SAM Amateur Radio Database
Ramsey Electronics

S
SGC, Inc.
Smiley Antenna Co.
Solder-IT-Co.
Spectrum International, Inc.
Startek Int'l

T
Ten-Tec, Inc.
Texas Bug Catcher Antennas
The Sign Man of Baton Rouge
The Sign Man of Ohio
The Used Store, Inc. (THUS)
The Wireman, Inc.
Transel Technologies
Transistor Sister & Co.
Tucker Electronics
Tucson Amateur Packet Radio(TARP)

U
Uni-Hat Corp.

V
Valor Pro-Am/Vectronics
The Vibroplex Company, Inc.

U
Universal Radio, Inc.

W
W & W Associates (Batteries R'Us)
W5YI Group
Watkins-Johnson Co.
Webster Associates
Worldradio

Top Ten Prize Donors

We would like to extend a special thanks to our Top Ten Prize Donors for 1995.

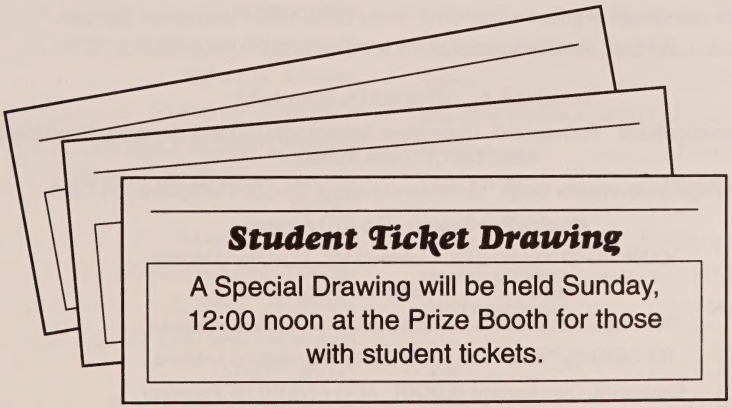
1. Yaesu U.S.A.
2. ICOM America, Inc.
3. Kenwood Communications
4. CQ Communications, Inc.
5. Percon Corp.
6. Buckmaster Publishing
7. Hewlett-Packard
8. Advantage Instruments Corp.
9. Mosley/Pro-Search
10. Electronic Distributors

We greatly appreciate their extraordinary participation and support of the 1995 Dayton Hamvention.

BE SURE TO STOP BY THEIR BOOTHS AND SAY "THANKS".

$1,000.00 and Over Prize Donors

AMSOFT
Alinco Electronics
Comer Communications Inc.
Japan Radio CO.
Midland International Corp.
Mini-Circuits Laboratory
OPTOelectronics, Inc.
PolyPhaser Corp.
P.W. Publishing Ltd.
Radio Control Systems, Inc.
Standard Amateur Radio Products, Inc.
Sventlana Electron Devices, Inc.



Student Ticket Drawing

A Special Drawing will be held Sunday, 12:00 noon at the Prize Booth for those with student tickets.

Major Prizes

DAYTON hamvention®

The Dayton Hamvention is proud to present an outstanding array of prizes for 1995, representing approximately 300 exhibitors and other donors.

Prizes will be awarded hourly from 1:00 p.m. Friday to noon Sunday.

Additional Bonus prizes will be awarded bi-hourly from 1:00 Friday to 11:00 a.m. Sunday. Please check the monitors located throughout the arena complex for winning ticket numbers.

All prizes not claimed by 1:00 p.m. Sunday will be redrawn at 2:00 p.m. You MUST be present in the Main Arena during this drawing to win.

The drawing for the Main Prizes will begin at approximately 3:00 p.m. Sunday. You do not have to be present to win. Prizes not claimed during this drawing will be shipped to the winner at no charge.

- **Yaesu** *FT1000D HF Transceiver with FL7000 Linear Amplifier, SP-5 External Speaker and MD-1C8 Mic. Yaesu's "Dream Station"*
- **Hewlett-Packard** *HP Model 54620A Logic Analyzer*
- **ICOM** *IC-736 HF Plus 6 m ,100 Watt Transceiver with SM-8 Desk Mic, and SP-20 Speaker.*
- **ICOM** *IC-820H 2 m, 70 cm, All Mode Transceiver with SM-8 Desk Mic, SP-20 Speaker and PS-55 Power Supply.*
- **ICOM** *IC-738 All Band, All Mode Transceiver with a General Coverage Receiver. With SM-8 Desk Mic, SP-20 Speaker and PS-55 power Supply.*
- **Yaesu** *FT736R 2 m/70cm All Mode Transceiver with SP-767 External Speaker and MD-1C8 Desk Mic.*
- **Advantage Instruments Corp.** *SA 1800C Spectrum Analyzer with options 1,3,5 & 6, 2MHz to 1800 MHz. Central Frequency Display and Digital Counter.*
- **Japan Radio Co.** *JST-145 HF Transceiver All Mode with Auto Antenna Tuner, 200 Memories and Built-in Computer Interface.*
- **Yaesu** *FT-990DC HF All Mode Transceiver Includes DS, SCF Filters, 100 Watts RF power, Built-in Auto Antenna Tuner and MH-1B8 Hand Mic.*
- **Kenwood** *TS-50S Compact 160-10 m HF Transceiver with AT-50 Antenna Tuner and PS-53 Power Supply.*

SPECIAL BANQUET PRIZES

A wide assortment of prizes will be given away at the 1995 Hamvention Banquet.
Winners must be present at the banquet to claim the prize.

Yaesu U.S.A. FT-900/AT w/Remote Kit

Comer Communications Radware HF Transceiver System with Signal Processing Soundcard & 486DX66 CPU less monitor

Advantage Instruments Corp. Spectrum Analyzer SA-500A w/Options 1,3,5 & 6

Mosley/Pro-Search Pro 67B Antenna

ICOM IC-2700H w/HM90A Infrared Mic, Dual Band Mobile

Yaesu U.S.A. FT-840 HF Transceiver

PW Publishing Lifetime Subscription to Practical Wireless

HY-GAIN by Telex TH11DXS Super Thunderbird Antenna

Electronic Distributors (EDCO) AOR AR3030 HF Receiver

Mosley/Pro-Search TA-53M Antenna

Yaesu U.S.A. FT-5200 Dual Band Mobile

Alinco Electronics, Inc. DR-600T 2m/440 Mobile

Bonus Prizes

DAYTON hamvention®

At press time, we have commitments for over $130,000 in prize donations! We heartily thank all those who have donated prizes this year. The following Bonus Prizes will be drawn bi-hourly beginning at 1:00 p.m. Friday. You must claim these prizes by 1:00 p.m. Sunday.

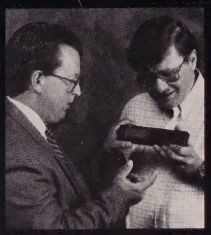
ICOM .....IC-2000H 2m Mobile
Alinco .....DR-150T Deluxe Mobile
Yaesu .....FT 2200 VHF Transceiver
Midland .....#73-005 VHF 2 m Handheld
Radio Shack .....HTX-404 HT
CQ Communications .....Lifetime Subscription/ Popular Comm.
Electronic Distributors. .....Lowe Preselector/Amp
OPTOelectronics .....Model 3000A Frequency Counter
GAP Antenna .....Titan Antenna
Standard Amateur Radio Products .....C158A 2 m HT
National Tower .....BX-32 Tower Assy
Hustler, Inc. .....G6-270 Antenna
CQ Communications .....Lifetime Subscription/ CQ Magazine
ICOM .....IC-Z1A Dual Band Handheld
CQ Communications .....Lifetime Subscription/ CQ Magazine
Yaesu .....FT-530 2m/70cm Dual Band HT
Kenwood .....TH-22AT 2m HT
Electronic Distributors .....Daiwa PS-40A Power Supply
Audio Amateur .....Lifetime Subscription/Glass Audio
KLM Antenna .....435-40CX Antenna
Yaesu .....FT-840 HF Transceiver
Hewlett Packard .....HP 200LX Palmtop Computer
PolyPhaser .....Single Point Ground Protection System
Kenwood .....TM-241A 2m Mobile
Startek Int'l .....35-BG Frequency Counter
ICOM .....IC-2000H 2m Mobile
Yaesu .....FT 2200 VHF Transceiver
Alinco .....DJ-G1T 2m HT
Svetlana Electron .....Pair 4CX400A power Tubes
Mosley .....TA-33 –10-20 m Beam
Radio Shack .....HTX-212 Mobile
NCG/Comet Antenna .....GP-9 2m/70cm Vert. Ant.
Yaesu .....FT-5200 2m/70cm Dual Band Transceiver
Kenwood .....TM-733A Tri-Band Mobile
Azden .....PCS-7500-H 6m MOBILE Transceiver
OPTOelectronics .....Model 3000A Frequency Counter
Vectronics Div. of Valor. .....VC300DLP Antenna Tuner
CQ Communications .....Lifetime Subscription/ Microcomputer
Yaesu .....FT-411/25-B Handheld
Outbacker Ant Sales .....Perth Antenna
PolyPhaser .....Single Point Ground Protection System
R & L Electronics .....YAESU FT 811 HT 70cm HT
Coaxial Dynamics .....Meter w/Case and Element
SCG, Inc. .....SCG-230 Controlled Antenna Tuner
CQ Communications .....Lifetime Subscription/ CQ Magazine
Standard Amateur Radio Products .....C188A 2 m HT
Svetlana Electron .....Pair 4CX400A Power Tubes
Uni-Hat Corp. .....CT5CR Vert. Antenna 160-17 meter
Radio Shack .....HTX-202 HT
Kenwood .....TH-79A Dual Band HT
Universal Radio .....Sony ICF-SW800 Radio
Yaesu .....FT-411/25-B Handheld
Standard Amateur Radio Products .....C188A 2 m HT
Midland .....#73-005 VHF 2 m Handheld
PolyPhaser .....Single Point Ground Protection System
Yaesu .....FT-530 2m/70cm Dual Band HT
Hewlett Packard .....HP E3630A Power Supply
OPTOelectronics .....Model 3000A Frequency Counter
Yaesu .....FT-411/25-B Handheld
Alinco .....DJ-582T Dual Band HT
Electronic Distributors .....EMOTO 201 SAX Rotor
ICOM .....IC-2GXAT 2m Handheld
Standard Amateur Radio Products .....C158A 2 m HT

NEW HF

Compact HF Transceiver **FT-900AT**

Introducing an HF that's going places.

"With the small snap-off remote front panel design, it's an HF mobile."



"It's a great base, too. Direct keypad entry, built-in antenna tuner, CW keyer with adjustable speed, 100 Watts, Omni-Glow display... Wow!"

"Yaesu did it again!"

Uncompromising HF quality that will change your lifestyle. It's the first transceiver with true HF technology to go mobile in any vehicle or stay at home as a compact base station.

With its revolutionary, small, snap-off remote panel, the controls of the FT-900AT can install almost anyplace in your car, truck or camper. Since the 100 Watt RF deck can be installed under a seat or in your car trunk, it's away from critical automotive electronic wizardry. And, for ultimate convenience, the built-in antenna tuner simplifies in-car operation.

As a base station, the compact full function FT-900AT includes direct keypad entry for pinpoint accuracy during quick band/frequency changes. Other features you'll like include CW keyer with front panel speed adjustment, speech processor, twin stacking VFOs, and IF Shift and Notch. No competitor offers this! Bonuses, such as signal strength, power output, SWR and ALC digital meters, add value to the FT-900AT, and the proven duct-flow cooling system provides excellent long-term transmit power output reliability and frequency stability. For ease of use, Yaesu's exclusive Omni-Glow display enhances viewing in any light condition. And, since the high speed antenna tuner is built-in, it means less clutter in your shack.

The FT-900AT controls mount almost anywhere in your car, truck or camper. 100 Watt RF deck can mount in trunk, or under seat.

For sheer high-performance, anywhere, the incomparable FT-900AT ranks with the FT-1000 to further establish Yaesu as the choice of the world's top DX'ers.

Trust Yaesu to know what you want. True HF you can take with you or leave at home! Available now at your Yaesu dealer.

Remote front panel control head measures only 2-1/4"H x 9-1/8"W x 1-1/4" D.

Specifications

- Remote Front Panel Design
- Built-In Auto Antenna Tuner
- Direct Keypad Entry when used as a Base Station
- Large, Bright Omni-Glow™ LCD Display
- 100W on SSB, CW, FM modes; 25W on AM
- IF Shift and 30db Notch Filter
- Digital S/RF, SWR & ALC Meters
- Programmable CTCSS Encode w/Repeater Offset
- Direct Digital Synthesis (DDS)
- 100 Memory Channels
- Frequency Range
  RX: 100 kHz-30 MHz
  TX: 160-10 meters
- CW Full Break-in Keying w/ Adjustable Speed
- Fast/Slow AGC Circuit
- Intercept Point Optimization
- Duct Flow Cooling System
- Twin Band Stacking VFOs
- Built-in Noise Blanker
- Built-in Adjustable Speech Processor

ACCESSORIES:
YSK-900 Remote Mount Kit
MMB-62 Controller Bracket
MMB-20 Mobile Mtg. Bracket
SP-7 Mobile External Spkr.
SP-6 Base Station External Spkr.
DVS-2 Digital Voice Recorder
FP-800 20A HD Power Supply
YH-77ST Headphone

YAESU

Choice of the World's top DX'ers

© 1994 Yaesu USA, 17210 Edwards Road, Cerritos, CA 90703 (310) 404-2700

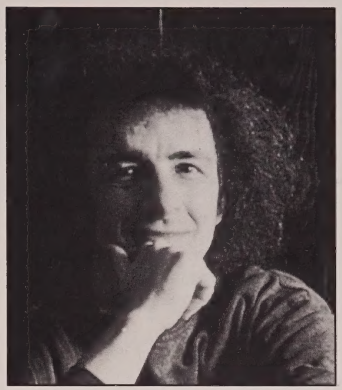
Specifications subject to change without notice. Specifications guaranteed only within amateur bands. Some accessories and/or options are standard in certain areas. Check with your local Yaesu dealer for specific details.

SEE US IN BOOTHS 521-524, 532-535, 586, 587. WE ARE A HAMVENTION PRIZE DONOR.

***We are extremely pleased to have as our Banquet speaker,* Cliff Stoll, K7TA.** Cliff, the author of the *Cuckoo's Egg* and the newly released *Silicon Snake Oil*, will return as our featured speaker.

Cliff wowed the audience two years ago with his dynamic and irreverent discourse on tracking down spies on the Internet. This time around, Cliff will talk about the hype, superhype and megahype surrounding the Internet...America's electronic superhighway.

Cliff's theme: The Internet's being sold as the future of our society, as a new communications medium, and the ham radio of the 1990's. Don't believe a word of it -- there's far more on the ham bands than just bits and bytes. Downloading files and surfing Web pages is no substitute for talking with another ham; homebrewing an antenna is far more satisfying than leasing an ISDN line. And in a disaster, when the power fails, where do you want your hands – on a keyboard or a handie-talkie? The Internet may be the great digital frontier, but it's a land without a soul. It will never replace ham radio.



Cliff Stoll, K7TA

***Master of Ceremonies for the 1995 Hamvention Banquet is* Scott Allen,** a Radio and TV personality who began his career in the Dayton market while still in junior high school. Over the past 30 years Scott has hosted both Radio and Television programs in Houston, Dallas and Los Angeles. In 1985, while hosting a national network radio show, he was bitten by the computer bug, and in addition to his broadcasting career, Scott has become a much sought-after consultant to various firms across the nation. We think you'll enjoy Scott's candid take on life.

Scott Allen

The Hamvention Banquet will be held at the Dayton Convention Center on Saturday evening with door opening at 6:00 p.m. Cash bars will also be available. Dinner will be served beginning at 7:30. The Hal Harris Orchestra will provide background music for the evening. Bus service will be provided from the KOA campground and the Miami Valley Technology Center only.

Banquet Menu

Spring Salad

Petite Filet Maitre'D and Chicken Marinara

Franconia Potatoes Sugar Peas

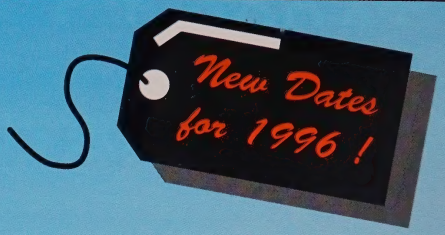
Warm Rolls and Butter

Strawberry Cream Cake Chocolate Nut Cake

Coffee & Decaf - Hot Tea - Milk - Iced Tea

Carafes of wine available at C.O.D. Bar

DAYTON
hamvention®

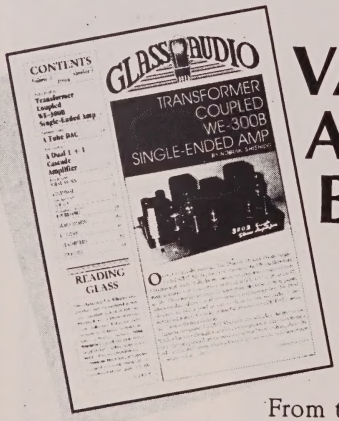


Dayton Hamvention® would like to invite you back in 1996!

The dates next year will be May 17, 18, 19, 1996.

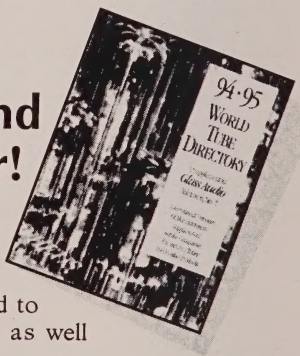
Same location - Hara Arena.

We enjoyed having you!



VACUUM TUBES FOR AUDIO ARE BACK . . .

and they sound better than ever!



From the publishers of *Audio Amateur* and *Speaker Builder*, ***Glass Audio*** brings you the world of vacuum tube audio–old and new. Discover the finest projects devoted to vacuum tube technology. Learn about ways to modify older equipment as well as ways to build state-of-the-art tube components.

Come by our booth at the show and receive a copy of the WORLD TUBE DIRECTORY! It's the definitive listing of sources for vacuum tubes worldwide. An annual feature of ***Glass Audio*** magazine, it will be an invaluable source for any vacuum tube project!

Also, sign up to receive a copy of the **Old Colony Sound Lab** *catalog. It's filled with books, software, videos, kits and parts for audio!*

SEE US IN BOOTH 466. WE ARE A HAMVENTION PRIZE DONOR.

DARA Scholarship Program

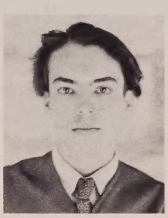
DAYTON hamvention®

Since 1984, the Dayton Amateur Radio Association has been able to assist young amateurs heading to college by awarding scholarships. In 1994 eight students each received $2000 toward tuition at the school of their choice. The program is open nationwide to any FCC licensed amateur radio operator graduating from high school in the year the award is given. There are no restrictions on class of license or course of study. The 1994 scholarship recipients are:

Dwight Harris, Jr., NØNTM, of Fairfield, Iowa. Dwight holds a Technician Class license and attends Maharishi International University majoring in biology and biochemistry.

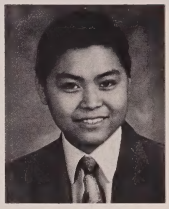
Jerry "Jay" Hensley, Jr., N8HUT of New Paris, Ohio. Jay holds a General Class license, is a recipient of the Charles G. Frye Memorial Scholarship, and attends Wright State University majoring in rehabilitation education and adaptive technolgy.

Alexis M. Leynes, N9KYJ, of Hanover Park, Illinois. Alexis holds a Technician Class license and attends the University of Illinois majoring in pre-medicine.



Dwight NØNTM

Jerry N8HUT



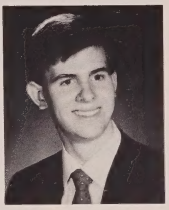
Alexis N9KYJ

Stefnee S. Lindberg, NØONP, of Kansas City, Missouri. Stefnee holds an Advanced Class license and attends the University of Missouri majoring in computer engineering.

Sadie A. Pairitz, KB9CGX, of Walkerton, Indiana. Sadie holds a General Class license and attends Ambassador College majoring in computer information systems.

Stefnee KØONP

Sadie KB9CGX

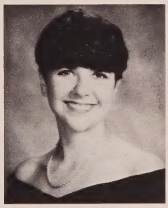


Douglas N2QAN

Douglas P. Regulinski, N2QAN, of Stony Brook, New York is the recipient of the Dave Beam Memorial Scholarship. Douglas holds an Extra Class license and attends Cornell University majoring in plant sciences.

Samantha L. Sheffield, KD4AMZ, of Trenton, Tennessee. Samantha holds a Novice Class license and attends the University of Tennessee majoring in pre-law.

Eric I. Shook, KF8DF of Jackson, Michigan is the recipient of the Robert F. Zimmerman Memorial Scholarship. Eric attends Michigan State University majoring in electrical engineering.



Samantha KD4AMZ

Eric KF8DF

Entries for 1995 scholarships must be received by May 12 with winners announced on or about June 1.

Information and application forms are available at the DARA Booth (Booth #1) or write:

DARA Scholarship Program
45 Cinnamon Court
Springboro, Ohio 45066-1000

ICOM HF TRANSCEIVERS

IC-77

RETAIL $1000.00

- HF - 100 W (AM-25 W)
- For Export Only
- Alpha Numeric Display
- 50 Memory Channels
- Front Facing Speaker
- Rugged Construction
- 100% Continuous Duty Cycle
- Preprogrammable By User or Dealer
- Optional AT-130 Antenna Tuner

IC-707

RETAIL $1032.00

- HF - 100 W (AM-25 W)
- Ideal for Mobile Operation
- Minimum Number of Keys
- Front Facing Speaker
- Large Display
- Rugged Construction
- 100% Continuous Duty Cycle
- 32 Memory Channels
- Lightweight (9.1 lbs)

IC-728

RETAIL $1325.00

- HF - 100 W (AM-40 W)
- Triple Conversion Receiver
- Passband Tuning
- Speech Conpressor
- 26 Memories
- Direct Digital Synthesizer
- Dual VFO's
- Microphone Included

IC-706†

RETAIL TBA

- HF + 6 M 100 W (SSB/CW/AM/FM/RTTY)
- 2 M 10 W (SSB/CW/RTTY/FM), 4 W (AM)
- All Modes including RTTY
- Receive Range 30 kHz - 200 MHz
- Detachable Control Panel/Display
- Smallest Size for an HF ever!
- 101 Alphanumeric Memories (99 Split)
- SSB/AM/CW Narrow Filter Options
- Noise Blanker
- IF Shift
- Preamp/Attenuator
- CW Pitch Control/Reverse
- CY Keyer
- Full Break-in (QSK)
- Speech Processor
- VOX/XFC
- LCD Display with 1 Hz Readout
- Easy-to-use Scroll Menu System
- Voice Synthesizer Option (UT-102)
- Tone Encode Built-in
- Matching Antenna Tuner Option (AT-180)
- 2 Antenna Connectors (HF/VHF)

IC-738

RETAIL $1935.00

- HF - 100 W (AM-40 W)
- Next Generation Technology
- New "I-Loop" D.D.S. (1 Hz Resolution)
- New AT-170 Antenna Tuner w/ 100 kHz Preset Memories
- Automatic Tuner Start (Retune)
- Tuner Sensitive/Tuner Normal Modes
- 100% Duty Cycle (2 Cooling Fans)
- Automatic Antenna Selector
- Pre-programmable Quick Split Function
- Separate CW Jacks
- 4 Function Meter (PO/SWR/ALC/S)
- RF Gain Control
- All Other Features of the IC-737A

IC-736

RETAIL $2485.00

- HF + 6 M
- 100 W (6 M also) (AM-40 W)
- Internal Tuner (6 M also)
- Internal Power Supply
- 100% Full Duty Cycle
- PBT and Notch Filter
- Newly Designed D.D.S.
- 1 Hz Tuning Resolution
- 101 Memories

IC-775DSP

RETAIL TBA

- DSP (Digital Signal Processing) Tx and Rx
- 200 W Stable Output Power (SSB/AM/FM/CW/RTTY)
- Built-in Heavy Duty Power Supply
- Automatic IF Notch Filter
- Adjustable DSP Noise Reduction
- Level/Width Variable Noise Blanker
- PSN Modulation
- Audio Peak Filter
- Dual Watch (2 Receivers)
- Twin Tuning Knobs
- Twin Pass Band Tuning
- Power MOS FET's
- Electronic Keyer
- Memory Keyer
- CW Pitch Control
- CW Reverse
- Two Key Jacks
- Full Break-in (QSK)
- Selectable Filters (CW/SSB/AM)
- Selectable Tone/Shift Frequency
- New CFL (Cold Cathode Fluorescent Lamp) LCD Display
- Transmit Signal Monitor
- RF Speech Processor

IC-781

RETAIL $8835.00

- HF - 150 W (AM-75 W)
- Multi Function CRT Display
- Dual Watch
- Quad Conversion Receiver
- Twin Passband Tuning
- Built In Tuner
- Built-in Power Supply
- 99 Memories

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ICOM HANDHELD TRANSCEIVERS

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- For Export Only
- 136-174 MHz Tx/Rx
- 5 W @ 13.8 V DC
- 40 Memory Channels
- AA Battery Case (BP-99) standard. NiCd version also available
- ANI (Automatic # ID)
- Cloning (via cable)
- Code Squelch/Paging
- Programming Manual Required
- PL Tone (88.5 hz) Built-in (38 others with the UT-86)
- PC Programmable
- Voice Scrambler

(UT-88 Required)
- Fully Programmable

RETAIL TBA

IC-U68

- Same features as V68
- 440 MHz

IC-2GXA

RETAIL $290.00

- For Export Only - Not Certified for U.S. Use
- 2 M
- 7 W @ 13.5 V DC
- 40 Memory Channels
- AA Battery Case (BP-130A) standard. NiCd version also available
- Wall charger included w/both models.
- No Touch Tone Pad
- C.T.C.S.S.
- Built-in PL Encode/Decode
- Auto Repeater Operation
- Tone Scan (UT-86)
- Channel Only Mode

IC-2GXAT

RETAIL $359.00

- 2 M
- 7 W @ 13.5 V DC
- 40 Memory Channels
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- Auto Repeater Operation
- Tone Scan
- DTMF Redial, Memories
- 350 mW Audio
- Selectable DTMF Speed
- Built-in PL Encode/Decode
- 35 mA Current Drain

RETAIL $389.00

IC-4GXAT

- Same features as 2GXAT
- 440 MHz

IC-2GXAT-HP

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- 40 Memory Channels
- 700 mAh Battery
- Auto Repeater Operation
- Tone Scan
- DTMF Redial, Memories
- 350 mW Audio
- Selectable DTMF Speed
- Built-in PL Encode/Decode
- 35 mA Current Drain

IC-T22A†

RETAIL TBA

- 2 M, 5 W @ 13.5 V
- 4.0 - 16 V DC Input (Charges Battery During Op.)
- Auto Low Power/ Power Saver (15 mA Drain)
- Remote Control Mic (Opt. HM-75A)
- 40 Memory Channels w/Alpha Display
- Air Cloning
- VHF/UHF Air Band Rx
- Auto Repeater Func.
- Backlit Display
- Channel-only Display if Desired

- Die Cast Frame and Heat Sink

RETAIL TBA

IC-T42A†

- Same features as T42A
- 440 MHz

IC-T21A

RETAIL $455.00

- 2 M
- 6 W @ 13.5 V DC
- Bonus Receive Band (2 M or 440 MHz)
- 6 Hours Operating Time
- 114 Memory Channels
- 33 Channels/Sec Scan
- Auto Low Power
- Full Crossband Duplex
- Battery Capacity Indicator
- Selectable DTMF Speed
- Auto Repeater Shift
- Tone Scan Built-in
- Backlit Keyboard

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IC-T41A

- Same features as T21A
- 440 MHz

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RETAIL $716.00

- 2 M/220 MHz
- 5 W @ 13.8 V DC
- Rx Two Signals on Same Band
- Built-in Pocket Beep, Pager
- Built-in Code, Tone Squelch
- Repeater Quick Memory
- Backlit Keypad
- Auto Output Power Control
- 900 mAh Battery
- 70 Memories
- Whisper Mode (opt)

IC-X21AT

RETAIL $960.00

- 440 MHz/1.2 GHz
- Bonus 2 M Receive
- 5 W (440 MHz), 1 W (1.2 GHz)
- 70 Memories
- Built-in Pager, Code Squelch
- Built-in Pocket Beep, Tone Squelch
- Repeater Quick Memory
- Auto Power Output
- Whisper Mode (opt)
- 900 mAh Battery
- 5 Power Levels
- Backlit Keypad

IC-W31A†

RETAIL TBA

- 2 M/440 MHz
- 5 W @ 13.5 V
- Remote Control Speaker Mic (Opt. HM-75A)
- 100 Memories with Alphanumeric Display
- Alphanumeric Message and Paging
- Backlit Display & Keypad
- Independent Tuning Knobs
- Long Operating Times (Power Saver and 700 mAh Battery)
- V/V, V/U, U/U Operation (Simultaneous Receive)
- External DC (4.0 V - 16.0 V) Charges Battery During Operation
- Auto Repeater Functions

- CTCSS Encode Stnd. (Decode Opt. UT-93)
- Tone Scan (Opt. UT-93)
- AM Aircraft RX

IC-Z1A

RETAIL $600.00

- 2 M/440 MHz
- 5 W @ 13.5 V
- Detachable Remote Control Speaker/Mic Standard with Full Functional Control and Dual Band Display
- 100 Memories with Alphanumeric Display
- Alphanumeric Message and Paging
- Backlit Display and Keypad
- Independent Tuning Knobs
- Long Operating Times (Power Saver and 700 mAh Battery)
- V/V, V/U, U/U Operation (Simultaneous Receive)
- Tone Scan (Opt. UT-93)
- AM Aircraft Rx

- External DC (4.0 V - 16.0 V) Charges Battery During Operation
- Auto Repeater Functions
- CTCSS Encode Stnd. (Decode Opt. UT-93)

IC-△1A

RETAIL $987.00

- 2 M/440 MHz/1.2 GHz
- 5 W (2 M), 5 W (440 MHz), 1 W (1.2 GHz)
- 3 Independent Bands
- Simultaneous Receive
- 3 Independent Displays
- Crossband Double Duplex
- Programmable Digital Squelch
- Speaker Selection
- 78 Memories
- DTMF Encode/Decode
- PL Encode
- Clock
- 1200 mAh Battery

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- 9600 BPS Modulation
- Packet Plug & Play
- Auto Repeater Functions
- Remote Control Microphone
- Tone Scan (opt)

RETAIL $665.00

IC-481H

- Same features as 281H
- 440 MHz Tx/Rx, 2 M Rx

IC-2000H

RETAIL $430.00

- 2 M w/Rx (118 - 174 MHz, AM Detect)
- 50 Watts Tx
- Superior Wide Rx Performance
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- 220 MHz
- 45 Watts
- 20 Memory Channels
- Scan and Priority Watch
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- Encode Built-in
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- Dual Controls
- "One Touch" Switches
- 42 Memories
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- Illuminated Switches
- Multiple Scans
- Remoteable w/ "Talk Back" (opt)
- Built-in PL Encode

IC-2340H

RETAIL $744.00

- 2 M (45 W), 440 MHz (35 W)
- Remote Control Microphone (opt)
- True Independent Dual Bands
- 110 Memories
- "One Touch" Switches
- Tone Scan (opt)
- Auto Repeater Shift
- Built-in Duplexer
- PL Encode Built-in
- Voice Synthesizer (opt)
- Remoteable with "Talk Back" (opt)
- DTMF Auto Dialing (14) Memories

IC-2350H†

RETAIL TBA

- 2 M (45 W), 440 MHz (35 W)
- Wide Band Rx (118 MHz -174 MHz)
- 100 Memories
- Tone Scan (opt)
- Remote Control Mic (opt)
- PL Encode Built-in
- Built-in Duplexer
- Auto Repeater Shift
- Voice Synthesizer (opt)

IC-2700H

RETAIL $959.00

- 2 M (50 W), 440 MHz (35 W)
- Detachable Control Panel
- Remote Control Microphone
- Infrared Microphone (opt)
- V/V, U/U, V/U
- Auto Repeater Shift
- Tone Scan (opt)
- Built-in Pager, Code Squelch
- Built-in PL Encode
- True Independent Dual Bands
- 122 Memories
- Remoteable with "Talk Back" (opt)
- Voice Synthesizer (opt)
- DTMF Auto Dialing (14) Memories

IC-△100H

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- Triple Band (2 M/440 MHz/1.2 GHz)
- 50 W (2 M), 35 W (440 MHz), 10 W (1.2GHz)
- Selectable Band Combinations (8)
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- Full Remote Control Microphone
- Detachable Control Panel
- 14 DTMF Auto Dial Memories
- High Performance
- PL Tone Encode Included
- 3 External Speaker Jacks
- Multiple Scans
- Remoteable with "Talk Back" (opt)

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- CTCSS Encode/Decode
- DTMF squelch with Paging
- Scanning-busy, pause or hold

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- 40+ memories (opt. 200+ memories with plug-in chip)
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- DTMF squelch with Paging
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- Fits in your shirt pocket!
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- CTCSS Encode/Decode
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- Scanning-busy, pause or hold

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- 40+ memories (or optional 200+ memories with plug-in chip)
- 400-474MHz extended receive
- CTCSS Encode/Decode
- DTMF squelch with Paging
- Scanning-busy, pause or hold

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C528A 2M & 440MHz

Deluxe Twin-Band HT

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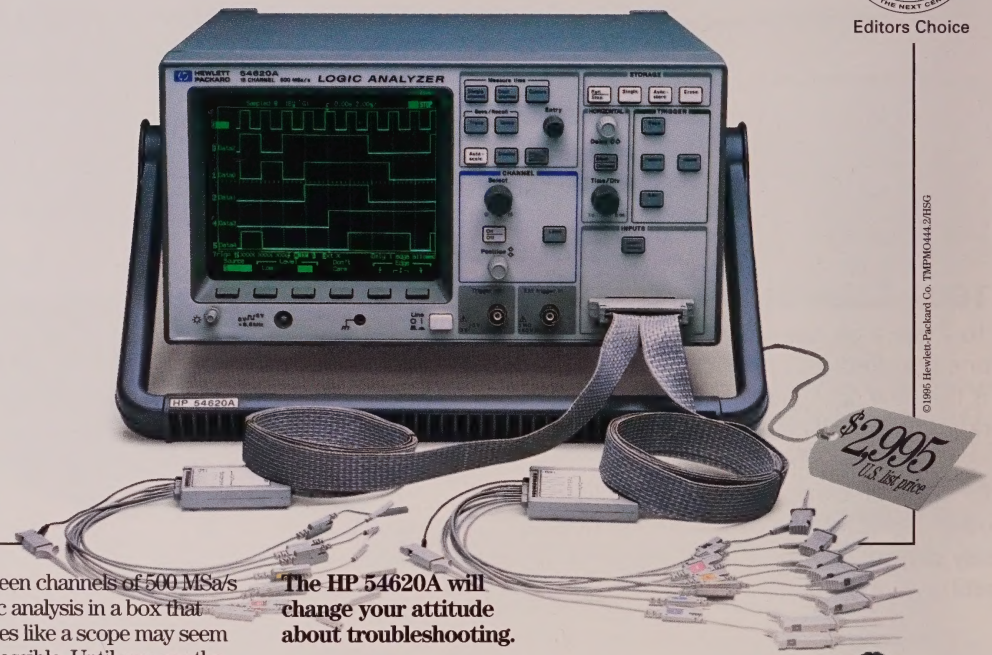

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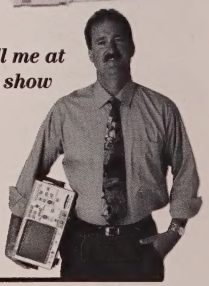

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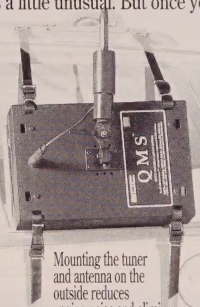
The QMS is that large box strapped to the side. We admit, at first glance it looks a little unusual. But once you use it, you'll find an almost unbelievable jump in reception and transmitting range (3-20 db). The QMS makes a typical HF-SSB perform like it's never performed before. Match it with a cutting edge SGC HF-SSB and it will blast holes through major mountain ranges and probably some laws of physics. Power and focus are everything in HF-SSB ham rigs. Buy this and own the best base station on–or off–the road.



Mounting the tuner and antenna on the outside reduces engine noise and eliminates power-draining antenna wire runs between the antenna and tuner.

QMS. It's the look of focused power.

LEARN TO LOVE THE LOOK

SMARTUNER® INSIDE

SGC

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WE ARE A HAMVENTION PRIZE DONOR.

Awards Nomination

DAYTON hamvention®

Help us locate nominees for our Amateur of the Year, Special Achievement, and Technical Excellence Awards. Do you know an outstanding amateur in your club, community, or from on-the-air contacts? Does this person excel in some phase of amateur radio? Do you feel this person deserves world-wide recognition? All amateurs are eligible – Novice through Extra. Awards are selected by the awards committee based on the information received.

Documentation is beneficial. Magazine articles, newsletters, newspaper clippings, videos, etc. will better inform the awards committee of your candidate's accomplishments. These materials become the property of DARA and cannot be returned.

AMATEUR OF THE YEAR

This is for the special person who has made a long term commitment to the advancement of amateur radio. We are looking for a well-rounded individual who has contributed to our hobby in some outstanding way.

SPECIAL ACHIEVEMENT

This is for the special person who has made an outstanding contribution to the advancement of amateur radio. This award is usually given to a respected amateur who spearheaded a single significant project.

TECHNICAL EXCELLENCE

This is for the person who has made an outstanding technical advancement in the field of amateur radio.

Name of nominee _____ Call _____

Address _____

City _____ State _____ Zip _____

Phone ( ) _____ Amateur club affiliation _____

How has this individual contributed to Amateur Radio ?

_____

_____

_____

_____

What else do you know about this individual ?

_____

_____

_____

_____

Your name (please print) _____ Call _____

Address _____

City _____ State _____ Zip _____

Phone: ☐ Day ☐ Evening ( ) _____ Your Signature _____

Send nomination to: ***Hamvention Awards Chairman***
Box 964
Dayton, OH 45401-0964

Please feel free to duplicate this form.

1995

These awards will be presented at the Hamvention Banquet.

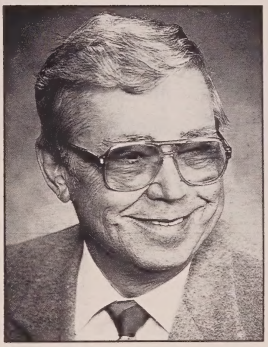
AMATEUR OF THE YEAR AWARD

Rosalie White, WA1STO

Rosalie exemplies leadership for the educational side of amateur radio. As head of the ARRL's Educational Activities Department, Rosalie has coordinated and hosted numerous workshops to motivate educators on the advantages of using amateur radio in their classrooms. As a member of the SAREX Working Group, she has created great interest in science and space flight among students. Also, Rosalie is an advisor to the ham radio Explorer Post in Newington, Connecticut.

SPECIAL ACHIEVEMENT AWARD

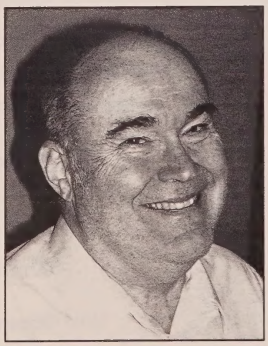
Ed Briner, WA3TVG



Ed has participated in the visits of the "Flying Dentists" to Honduras, an activity which provides free dental care to the underprivileged children of that Central American country. Under the auspices of the Medical Amateur Radio Council (MARCO), Ed has helped provide emergency medical assistance to remote locations around the world. As Editor of the MARCO newsletter, Ed is key to assuring that MARCO members are informed, and motivated to continue their humanitarian activities. Ed hasn't neglected his own backyard, though; Southwest Pennsylvania amateurs know that he will help out local projects with needed equipment and his scarce personal time to get the job done.

TECHNICAL EXCELLENCE AWARD

Philip Ferrell, K7PF



Philip developed FingerPrinting as a method of identifying radio transmitters. This technique displays the turn-on transient of a transmitter for the first 200 miliseconds as it comes onto frequency. Since each transmitter comes onto frequency differently, due to both design and parts tolerances, this technique allows the identification of many interference sources. This technique has greatly enhanced the ability of amateurs and the FCC to locate problem transmitters.

Forums

FRIDAY FORUMS

1:00 - 3:00 AMSAT(SESSION #1) ..... ROOM 1

Moderator: Keith Pugh, W5IU, VP-Operations AMSAT-NA

Speakers: "SAREX: Mission Reports and Plans"
Frank Bauer, KA3HDO, VP-Manned Space Programs, AMSAT-NA
Rosalie White, WA1STO, Educational Activities Manager, ARRL

"Getting Started on the Amateur Radio Analog and Digital Satellites"
Steve Grant, N8AJD, Southeast Ohio AMSAT Area Coordinator

1:00 - 3:00 USING HAM RADIO IN THE CLASSROOM (SESSION #2) ..... ROOM 2

Moderator: Carole Perry, WB2MGP

Speakers: "How to Write Grant Requests", Sheilah Perry, NØUOP
"Exciting Demos of Phasing in the Classroom", Bob Heil, K9EID
"Using Ham Radio and Packet With Kids", Missy Hollenbeck, AAØOF
"Young Ham of the Year Award", presented by Bill Pasternak, WA6ITF
"Police/hams as Guest Speakers", Jeff Savasta, KB4JKL
"Using Radio to Teach 'At Risk' Students", Carole Perry, WB2MGP

1:00 - 5:00 PACKET AND DIGITAL RADIO (SESSION #4) ..... ROOM 4

Moderator: Dave Wolf, WØ5H

Speakers: "Introduction to Digital Communications", Greg Jones, WD5IVD
"TAPR Update", John Ackerman, AG9V
"RF Issues - Improving Layer 1 Performance", Mel Whitten, KØPFX
"TAPR/AMSAT DSP-93 Project Update", Bob Stricklin, N5BRG
"TCP/IP Issues and Trends", Barry McClaren, VE3JF
"BBS Issues and Trends", Barry Buelow, WAØRJT
"HF Digital Communications Trends", Phil Karn, KA9Q
"Weather Monitoring With Packet", John Bennet, N4XI
"APRS Update and SIG Meeting", Bob Bruninga, WB4APR

1:00 - 5:00 ANTENNAS (SESSION #5) ..... ROOM 5

Moderator: Tim Duffy, K3LR

Speakers: "Techniques for Locating and Solving AC Power Line Interference Problems"
Dr. Richard Adler, K3CXZ
"Applications of NEC Antenna Models in Real World Situations"
Dr. James Breakall, WA3FET, and Tim Duffy, K3LR
"Long Distance Low Frequency Propagation Applicatons During Low Sunspot Activity", Frank Donovan, W3LPL
"An Overview of NEC-WIN, NEC-based Windows Modeling Software"
Todd Erdley
"Antenna Construction Notebook", John Sluymer, VE3EJ

1:00 - 2:45 LOGGING PROGRAMS (SESSION #6) ..... ROOM 7

Moderator: Lauren Rudd, KD8PZ

Speakers: "Logging Program Design Methodologies - Windows" Ira Chavis, WA1W

"Using a Logging Software Report Card", Dave Farnsworth, WJ2O

"From Paper to Power", Dennis Hevener, WN4AZY

"Keeping A Logging Program Current", David Monfried, W2PK

"User Interfaces for Logging Programs", Joe Spear, AH8B/W4

"Logging Program Design Methodologies - DOS", Alan Yorinks, WB2OPA

2:00 - 3:00 ELECTRICAL SAFETY DEMONSTRATION (SESSION #7) ..... ROOM 6

George Maurer and Tony Norman, Dayton Power & Light

3:15 - 5:00 COUNTY HUNTERS (SESSION #8) ..... ROOM 1

Moderator: John B. Sebastian, N8BGF, Great Lakes Director for MARAC

Speakers: "MARAC Awards Custodian", Pete Peterson, K4QFK

"CW County Hunting", Harry Brundridge, NFØX

"County Hunting: A Way of Life", Gene Tyree, N4ANV

3:15 - 5:00 QRP RADIO CONSTRUCTION (SESSION #9) ..... ROOM 2

Moderator: William Kelsey, N8ET

Speakers: "Building Your Own HF Transceiver (Some Practical Approaches)" Rev. George Dobbs, G3RJV

3:00 - 5:00 OPERATING TECHNIQUES FOR NEW HAMS (SESSION #10) ..... ROOM 7

Moderator: Mitchell Stern, WB2JSJ

Speakers: "Techniques to Maximize Ham Radio Fun", Mitchell Stern, WB2JSJ

"VHF/UHF Emergency Communications Techniques", Ronni Stern, KA1NRR

"Make Your Equipment Work for You", Mitchell Stern, WB2JSJ

"Improve Your Skills Through Contesting", Mitchell Stern, WB2JSJ and Ronni Stern, KA1NRR

SATURDAY FORUMS

9:00 - 1:00 DX (SESSION #11) ..... ROOM 1

Moderator: Steve Bolia, N8BJQ

Speakers: "DX Advisory Council", Garth Hamilton, VE3HO

"DXCC Program", Bill Kennamer, K5FUV

"Scarborough Reef (BS7H)", Tim Totten, KJ4VH, and Chen, BZ1HAM

"South Georgia Island (VP8SGP)", Al Hernandez, WA3YVN, and Jan Heise, WA4VQD

"Syria (YKØA)", Eric Scace, K3NA

Join the ham radio accessories party at the MFJ booths!

MFJ-949E Deluxe 300 Watt Tuner covers 1.8-30 MHz . . . plus you get peak reading meter, dummy load, antenna switch and balun for $139.95

More hams use the MFJ-949E than any other tuner in ham radio.

Why? Because no other 300 watt tuner gives you this combination of features and value.

MFJ-949E gives you a highly developed product with years of proven reliability and a reputation for being able to match about anything.

A lighted peak reading cross-needle meter shows you SWR, forward and reflected power. A 8-position antenna switch lets you select 2 coax lines, built-in dummy load, random wire or balanced line (direct or thru tuner). You also get a 4:1 balun for balanced line and 1.8-30 MHz coverage.

Hard earned reputation

There's just no shortcut. MFJ is the most trusted name in the business.

MFJ-949E **$139.95**

More hams trust MFJ tuners than all other tuners combined.

Proven Reliability

MFJ has made more tuners for more years than anyone else. With the MFJ-949E, you get a highly developed tuner with proven reliability.

Made in USA

The MFJ-949E is made in USA. We're not an importer sending your money to a foreign country.

Your Very Best Value

MFJ-949E gives you your very best value -- first-rate performance, *proven reliability* and the best guarantee in ham radio -- all from the most trusted name in antenna tuners. Don't settle for a copy-cat when you can own an MFJ original. Get yours today!

MFJ 5/8 Wave GroundPlane

MFJ-1750 **$19.95**

You get a 300 watt 5/8 wave ground plane home antenna for 2 Meters that gives you the maximum possible calculated gain of any single element antenna. Shunt fed matching network for lowest possible SWR over the entire 2 Meter band. Plus it bleeds of unwanted static. *Rapid- Tune-Radiator,™* ceramic insulator, easy installation to any 1 or 1½ inch mast with single U-bolt.

Mobile Antennas

A. MFJ-1728B, $24.95. Maximum Gain 5/8 wave mobile magnet- mount antenna, 300 watts, 12 feet coax. PL-259 connector and BNC adaptor.

B. MFJ-1724B, $14.95. Dual Band Magnet -mount 144/440 MHz ¼ wave on 2M and gain on 440 MHz. 300 watts,12 ft. coax,PL-259 connector and BNC adaptor.

MFJ HF Antenna

MFJ-1796, $199.95. 1/2-wave Vertical Antenna. 6 Bands - One Antenna! Great Performance! Ground independent -operate 40, 20, 15, 10, 6, and 2 meters without a ground or radials. Automatic bandswitching, low-angle and omni-directional radiation for great DX. Self- supporting and just 12 ft tall, with a 24 inch footprint - mounts anywhere from ground level to roof-top E-Z to tune, handles up to1500 watts PEP SSB power.

MFJ-1798, $269.95, 1/2-wave Vertical Antenna. Same as MFJ-1796, but 10 bands. Covers 75 /80, 40, 20, 15 ,10, 6, and 2 meters. 20 ft tall. E-Z to assemble.

MFJ-1786 $299.95, Hi-Q Loop Antenna. Covers 10-30MHz continuous. Tunable from controller that features an SWR/ Wattmeter and auto band slection. 36" diameter, installs almost anywhere. Uses 50ohm coax. No separate control cable needed.

MFJ-1778, $29.95, G5RV Antenna operates all bands 80-10M. 160M w/tuner. Fully assembled, handle legal power limit.

MFJ Coax Antenna Switches

MFJ-1701 **$34.95**

MFJ-1702B **$21.95**

MFJ-1704 **$59.95**

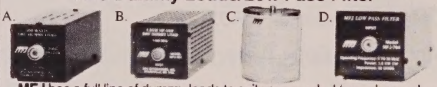
Select any of several antennas from your operating desk with these *MFJ Coax Switches.* Features mounting holes and automatic grounding of unused terminals. Comes with MFJ's 1 year unconditional guarantee.

MFJ-1701, $34.95. Six position HF antennas switch. SO-239 connectors. 50-75 ohm. 3x2x2 inches.

MFJ-1702B, $21.95. 2 position plus center ground, 2.5 KW PEP, 1KW CW, insertion loss below .2 dB, 50 dB isolation at 450 MHz, 50 ohm, 3x2x2 in.

MFJ-1704, $59.95. 4 position cavity switch with lightning/surge protection device. Center ground 2.5 KW PEP. 1KW CW. Low SWR. Isolation better than 50 dB at 500 MHz. Negligible loss. 50 ohm. 6¼x4¼x1¼ in.

MFJ Dummy Loads/Low Pass Filter



MFJ has a full line of dummy loads to suit your needs. Use a dummy load for tuning to reduce needless (and illegal) QRM and save your finals.

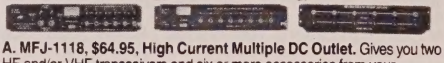
A. MFJ-260C, $29.95. VHF/HF, air cooled, non-inductive 50 ohm resistor. SO-239 connector. Handles 300 watts. Runs full load for 30 seconds, derating curve to 5 minutes. SWR less than 1.3:1 to 150 MHz. 2½x2½x7 inches.

B. MFJ-264, $59.95. UHF/VHF/HF 1.5 KW load. Low SWR to 60 MHz. Run 100 watts for 10 minutes, 1500 watts for 10 seconds SWR is 1.1:1 to 30 MHz, below 1.3:1 to 650 MHz. 3x3x7 inches.

C. MFJ-250, $49.95. 1KW dummy load, 50 ohm oil-filled, low VSWR-400 MHz, 1KW CW or 2 KW PEP for 10 minutes. ½ KW for 20 minutes; with oil. 7½x6⅞ **MFJ-250X, $29.95**, without oil.

D. MFJ-704, $39.95. Low pass filter handles full legal power. 1.8-30 MHz. 52 ohm, low insertion loss.

MFJ Multiple DC Power Outlets



A. MFJ-1118, $64.95, High Current Multiple DC Outlet. Gives you two HF and/or VHF transceivers and six or more accessories from your transceivers' main 12 VDC power supply. Two pair of 30 amp binding posts, RF bypassed and individually fused for transceivers. Six additional pair of binding posts are fused and handle a total of 15 amps. ON/OFF power switch and LED power indicator. 0-25 V monitor meter. 6 feet, eight gauge cable with ring tongue terminals.

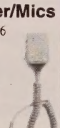
B. MFJ-1116, $44.95, Deluxe Multiple DC Power Outlet. 8 outlets for powering accessories. Connects to 12 VDC power VDC power supply, monitors DC voltage with voltmeter, power switch and 15 amp fuse. 5- way binding post with standard spacing for dual banana jacks.

C. MFJ-1112, $29.95, like MFJ-1116 without ON/OFF switch, voltmeter, and fuse. 6-pair outlets.

MFJ *Mini* Speaker/Mics and *Compact* Speaker/Mics

MFJ-285/287 **$24.95**

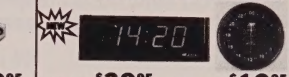
These MFJ speaker/mics give you everything -- first rate electret mic element and wide rage speaker for superb audio on both transmit and receive. Earphone jack, PTT, pocket clip, lightweight retractable cord and 1 year guarantee -- and you get it all in a tiny mini 2x1¼x¼ inch package or compact 1¼x2x3 inches. Regular or "L" shaped connector available. Come by and try our *Mini* Mics: MFJ-283, 285, 285L, 285W. MFJ-287, 287L; our *Compact* Mics: MFJ-284 or 286 for ICOM, Yaesu, Alinco, Kenwood and others.



MFJ-284/286 **$24.95**

Free Catalogs at booths 62-64, 83-85

MFJ Communication Clocks



MFJ-114 **$39.95** MFJ-105B **$19.95**

MFJ-114, $39.95, Giant LED 24/ 12-Hour Clock. Four 2.3" digits. User selectable 12 or 24 hour display format. 110VAC with battery back-up. Batteries not included. 6½x 13 x 1".

MFJ-105B, $19.95. An accurate 24-hour UTC quartz wall clock with large 10 inch face.

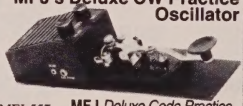
MFJ 12/24 Hour Clocks

MFJ-108B MFJ-107B **$9.95**

Huge 5/8 inch bold LCD digits let you see the time from anywhere in your shack. *Choose* from the dual clock that has UTC and local display or the single 24-hour ham clock.

Mounted in brushed aluminum frame, easy set. The world's most popular logging clocks. **MFJ-108B** is 4½x1x2 inches; **MFJ-107B** is 2½x1x2 inches.

MFJ's Deluxe CW Practice Oscillator



MFJ-557 **$24.95**

MFJ *Deluxe Code Practice Oscillator* has a Morse key and oscillator mounted together on a heavy steel base so it stays put on your table. *Portable* because it runs on a 9-volt battery (not included) or an AC adaptor ($12.95) that plugs into a jack on the side.

Earphone jack for private practice, tone and volume controls for wide range, speaker, key can be hooked to transmitter. 8½x2½x3¾ inches.

MFJ Deluxe Iambic Paddle

MFJ-564 **$49.95**

MFJ's *Deluxe Iambic Paddle.* Ideal for all MFJ keyers and memory keyers. Heavy chrome base.

Memory Keyer/ Bencher Combo

MFJ-490 **$164.95**

Has all the features of the MFJ-492 except memory expansion.

MFJ-490X, $109.95, Keyer, same as MFJ-490 without bencher paddle.

MFJ ENTERPRISES, INC. • P. O. BOX (601) 323-5869 • **FAX:** (601) 323-

Dayton Booths:

MFJ HF/VHF SWR Analyzer™ with RF Resistance Meter

MFJ's universal SWR Analyzer™ covers 1.8-170 MHz -- has built-in RF resistance meter!

MFJ-259 **$219.95**

Our *newest SWR Analyzer™* covers 1.8-170 MHz continuously. Built-in 10 digit LCD frequency counter. Ball-bearing vernier reduction drive on tuning capacitor makes it easy to set frequency precisely. Automatic SWR reading. Plug-in your antenna, set your MFJ-259 to the frequency you want and read SWR. 4 instruments in *one* -- RF signal generator, 170 MHz frequency counter, SWR analyzer and resistance meter. Handheld. Operates with batteries or with optional AC adapter MFJ-1312B, 4x2½x6¾ inches.

MFJ-249, $199.95, like the MFJ-259 less RF resistance meter.

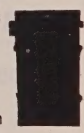
MenuDriven Memory Keyer™

MFJ-492 **$99.95**

Stores 192 characters in 4 battery backed-up message memories. Expands to 8000 characters, 8 memories with **MFJ-80, $14.95.** Automatic, semi-automatic bug or handkey modes, reverse dot/dash paddles, select iambic A or B or non-iambic modes. Morse trainer, automatic serial numbering, sidetone, volume and speed panel controls, remote control jack, plus more.

Super MenuDriven Memory Keyer™ **MFJ-493, $139.95** is the world's most sophisticated memory keyer. Stores 32,000 characters! Plug-in AT keyboard and it turns into full featured CW keyboard. Serial port lets your computer control your keyer, compose, edit, display, save messages and record your transmissions. *FCC Exam Simulator, QSO Simulator, Word Recognition Trainer,* remote control jack, plus all the features of MFJ-492.

Personal Morse Code Tutor™



MFJ-411 **$79.95**

***Learn Morse Code anywhere with this MFJ pocket-size* Morse Code Tutor™**

Learn from zero code speed with beginner's course to Extra Class with customized code practice. Has Random QSO mode like FCC Code Exam and Word Recognition mode--lets you learn to copy entire words. Two-digit LEDs display speed or selected function. Easy-to-use menu select system -- no keypad or complex sequence to remember. Built- in speaker, headphone jack. Compact 3x1⅞x5½ inch. Uses 9 volt battery (not included) or optional AC adaptor for 110 VAC, MFJ-1312B, $12.95.

Making quality affordable during the 1995 Hamvention

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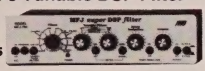
6551; **Toll-free** 800-647-1800

62-64, 83-85

MFJ *Tunable DSP Filter*

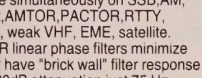
MFJ-784
$219.95



MFJ-784 DSP filter automatically eliminates heterodynes, reduces noise and interference simultaneously on SSB,AM, CW,packet,AMTOR,PACTOR,RTTY, SSTV,FAX, weak VHF, EME, satellite. Tunable FIR linear phase filters minimize ringing and have "brick wall" filter response with up to 60dB attenuation just 75 Hz away. Only MFJ gives you 5 factory preset filters, 10 programmable preset filters you can customize. Automatic notch eliminates multiple heterodynes, Noise reduction.Has AGC, 2 watt amplifier, volume control, input level control, headphone and TNC jacks.

World Band Radio *Kit*

MFJ-8100K
$59.95 *kit*
MFJ-8100W
$79.95 *wired*

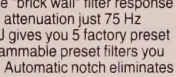


Build this *regenerative* shortwave receiver *kit* and listen to signals from all over the world with just a 10 foot wire antenna.

Has RF stage, vernier reduction drive, smooth regeneration, five bands.

MFJ CW & *SSB Transceivers*

MFJ-9020
$179.95



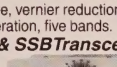
Compact *CW Transceivers*, superhet receiver, crystal filter, RIT, AGC, vernier tuning, sidetone, speaker, semi/full break-in, up to 5 watts.

Models for 40, 30, 20, 17 and 15 Meters CW band, $179.95 *each.*

MFJ-9420, $219.95. 20 meter SSB Travel Radio features a hot receiver and potent speech processor. Smooth drive VFO tuning. S-meter 12VDC 2½x 6½x 6.

MFJ Keyer/Paddle

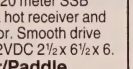
MFJ-422C
$134.95



***Deluxe** MFJ Keyer/Bencher Paddle Combo.* Iambic keying, adjustable weight, tone, front panel volume, speed controls, dot-dash memories, sidetone, speaker and auto. or semi-auto/tune modes. Use 9 V battery or 110 VAC with MFJ-1312B, $12.95.Keyer Only, **MFJ-422CX, $79.95.**

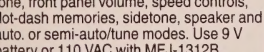
MFJ Keyer

MFJ-401C **$49.95**



MFJ-401C lets you send iambic, automatic, semi-auto. or manual with your squeeze, single-lever or straight key. Dot-dash memories, 9 V bat. or 110 VAC with MFJ-1312B, $12.95, 4x2x3½

MFJ Morse Keyboard



MFJ-451
$99.95

Stand alone CW keyboard includes AT type keyboard, 200 character type-ahead buffer, two 100 character message memories and much more. Use 12 VDC or optional MFJ-1312B.

MFJ-451X, $79.95, keyboard interface only.

Here is the finest 3 KW Tuner money can buy. Has roller inductor, dummy load, new peak reading meter, antenna switch, balun plus more . . . $349.95

MFJ-989C is not for everyone -- not everyone can afford it.

However, if you do make the investment you get the finest 3 KW PEP tuner money can buy -- one that will give you a lifetime of use, one that takes the fear out of high power operation and one that lets you get your SWR down to absolute minimum.

The MFJ-989C is a compact 3 KW PEP roller inductor tuner with a lighted peak and average reading dual range Cross-needle SWR/Wattmeter.

With three continuously variable components -- two massive 6 KV capacitors and a high inductance roller inductor -- you get precise control over SWR and the widest matching range possible. It covers 1.8-30 MHz.

MFJ-989C **$349.95**

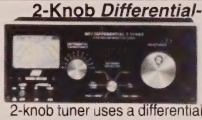
You get a new lighted peak and average reading Cross-needle SWR/ Wattmeter.

You get a giant two core balun wound with *Teflon®* wire for balanced lines and a 6-position antenna switch with extra-heavy switch contacts.

The compact 10¾x4½x15 inch cabinet fits right into your station.

You get a 50 ohm 300 watt dummy load for tuning your exciter, a tilt stand for easy viewing and a 3 digits turns counter plus a spinner knob for precise inductance control.

2-Knob *Differential-T*™ Tuner

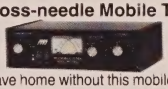


MFJ-986
$289.95

MFJ-986 2-knob tuner uses a differential capacitor to make tuning foolproof and easier than ever. It ends constant retuning with ends broad band coverage and gives you minimum SWR at only one best setting. Covers 1.8-30 MHz. You get a peak and average reading cross-needle SWR/Wattmeter. It reads forward/reflected power and SWR simultaneously. 6-position antenna switch and current balun. Meter lamp uses 12Vdc.

MFJ Cross-needle Mobile Tuner

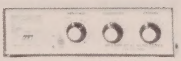
MFJ-945D
$89.95



Don't leave home without this mobile tuner! Have an uninterrupted trip as the MFJ-945D extends your antennas bandwidth so you don't havego outside and adjust your mobile whip. Built-in cross-needle SWR/Wattmeter. Meter lamp uses 12Vdc.

MFJ VHF or UHF Tuners

MFJ-921
$69.95



MFJ-921 tuner covers both 2 Meters and the 220 MHz bands. MFJ-924 covers 440 MHz. Built-in SWR/Wattmeter. 8x2½x3 inches. 2-knob tuning convenient for mobile or base.

HF Cross-needle SWR/Wattmeter

MFJ-815B
$69.95

MFJ-815B wattmeter gives you a peak reading function! Shows SWR, forward and reflected power in 2000/500 and 200/50 watt ranges. 1.8-60 MHz. Mechanical zero adjusts for movement. Lamp uses 12 VDC or 110 VAC with MFJ-1312, $12.95.

HF/VHF/UHF Cross-needle SWR/ Wattmeter

MFJ-864
$59.95

MFJ-864 HF/VHF/UHF (1.8-60/144/440 MHz) cross-needle SWR/Wattmeter. Read forward and reflected power and SWR simultaneously at a single glance. Has separate HF and VHF/UHF directional couplers and each with its own SO-239 connectors. Two power ranges: 30/300 watts forward and 6/60 watts reflect.

MFJ-862, $39.95. VHF/UHF SWR/ Wattmeters. Same as MFJ-864, but covers 144/220/440 MHz.

MFJ-860, $39.95. HF SWR/Wattmeter. Same as MFJ-862, but covers 1.8-60 MHz.

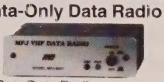
MFJ VHF SWR/Wattmeter

MFJ-812B
$29.95

MFJ-812B is the world's most popular(and most affordable) VHF SWR/ Wattmeter with built-in field strength meter. Covers 2 Meters and 220 MHz.

MFJ Data-Only Data Radio

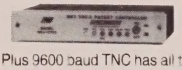
MFJ-8621
$119.95



MFJ's Packet-Only Data Radio operates on 2 meter band and runs all data rates through 9600 baud right out of the box! Get up to 5 watts output power. Comes with 145.01 MHz crystal pre-installed. Order additional plug-in crystals for other packet channels. Compact 5 x 5 x 1½ inches. Requires 12 Vdc at 1 Amp.

MFJ 9600 baud TNC

MFJ-1270CQ
$229.95



MFJ Turbo Plus 9600 baud TNC has all the features of the MFJ-1270C plus 9600 baud G3RUH compatible modem. Features NetROM. The Net and X1J compatible.

MFJ Color FAX Interface

MFJ-1214PC
$149.95

Use your computer and radio to receive and display brilliant full color FAX news photos and incredible WeFAX weather maps with all 16 gray levels.

Animate weather maps. Display 10 global pictures simultaneously. Zoom any part of picture or map. Frequency manager lists over 900 FAX stations. Automatic picture capture and save.

Includes interface, easy-to-use menu driven software, cables, power supply, comprehensive manual and *Jump Start*™ guide. Requires 286 or better computer with VGA monitor.

MFJ *MultiReader*™

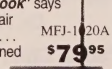
MFJ-462B
$159.95

Copy RTTY, ASCII, CW and AMTOR. Self- contained, *no computer needed!* Connects to shortwave receiver earphone jack. Has 2 lines 16 character LCD display. Built-in printer port. Uses 12 VDC or 110 VAC with optional MFJ-1312B, $12.95.

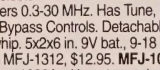
Indoor Active Antenna

"*World Radio TV Handbook*" says MFJ-1020 is a "fine value . . . fair price . . . best offering to date . . . performs very well indeed." Tuned circuitry minimizes intermod., improves selectivity, reduces noise outside tuned band. Use as pre- selector with ext. antenna. Covers 0.3-30 MHz. Has Tune, Band, Gain, On/Off/Bypass Controls. Detachable telescoping whip. 5x2x6 in. 9V bat., 9-18 VDC or 110 VAC with MFJ-1312, $12.95. **MFJ-1022, $39.95** same as 1020A with no tuner cicuit. Covers 300KHz to 200 MHz.

MFJ-1020A
$79.95



MFJ-306
$79.95



MFJ World Band Explorer Mobile Shortwave Converter. Enjoy shortwave radio listening from all over the world as you drive. Easy to install between your car radio and antenna. Covers 19,25,31,and 49 Meter bands. Compact 5 x 1½ x 3½. Connect to 12 Vdc.

MFJ Packet/Multimode with DSP

with DSP
$379.95
without DSP
$299.95

MFJ-1278B DSP

NEW 10-Mode Data Controller! Built-in PACTOR. Color SSTV, Color FAX, HF /VHF packet, AMTOR, RTTY, ASCII, CW Navtex and contest memory keyer. Built-in 16 gray levels modem. 64K memory battery back-up RAM -- expandable to 512K. Enhanced packet mailbox, FREE AC adaptor. KISS interface for TCP/IP -- fast through-put anti-collision technology for packet. True DCD circuit for HF. FSK Output, Automatic Signal Analysis for HF packet/RTTY/ASCII/AMTOR. built-in printer port. dual radio ports. RS-232 & TTL serial ports. sidetone amplifier. independent transmit audio level for each radio port. TAPR internal modem header for high speed modem -- 2400 or 9600 baud. 20-digit LED tuning indicator, dedicated MARS mode. CW iambic paddle input. IC sockets used throughout. Fast-Start™ manual. 1 year *No Matter What*™ guarantee.

TNCs for VHF/HF Packet Now GPS Ready!

MFJ-1270C
$119.95
MFJ-1276
$159.95

MFJ-1270C Super TAPR Clone known worldwide as the *most reliable* TNC. Thousands are used as digipeaters, nodes, BBS -- many in 24 hours per day applications for years without a failure. VHF and HF Packet. Free AC power supply. WeFAX, mailbox expandable to 512K. Easy upgrade to 2400 or 9600 baud. KISS interface, TCP/IP, NetROM, X1J compatible. 1 year *No Matter What*™ guarantee. Uses 12 VDC or 110 VAC.

MFJ-1276 with PACTOR, like MFJ-1270C with 20 segment HF packet tuning indicator.

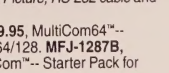
MFJ Packet Software

MFJ-1289, $59.95, MultiCom™. Exciting new 1278B software, bursting with features for IBM and compatibles: *Gray level FAX, Color SSTV, VGA Packet Picture, RS-232 cable* and *much more.*

MFJ-1282B, $39.95, MultiCom64™-- Starter Pack for C64/128. **MFJ-1287B, $59.95,** MacMultiCom™-- Starter Pack for Macintosh.

MFJ TNC/MIC Switch

MFJ-1272B/M
$34.95



MFJ-1272B lets you switch between your TNC and Mic by pushing a button! You won't have to unplug your microphone and plug in your TNC *every time* you want to work packet. Just plug the TNC switch with pre-wired cable into your rig's microphone connector and into your TNC and you're ready to go -- no more hunting for hard-to-find connectors and wiring up complicated cables. Compatible with most radios with 8-pin Mic or most radios with 8-pin RJ-45 modular jack. Switch for MFJ TNCs, $34.95 each. For other TNCs, $39.95 each.

Prices and specifications subject to change without notice or obligation. Add shipping and handling charges. © *1995 MFJ Enterprises, Inc.*

Forums, continued

9:00 - 10:15 ARES(Amateur Radio Emergency Service) (**SESSION #12**) ..... ROOM 2

Moderator: Larry Solak, WD8MPV, Section Emergency Coordinator, Ohio
Speakers: "ARES and Field Services"
Jay Mabey, NUØX, Assistant Director, Field Services, ARRL
"Section Perspective", Joanne Solak, KJ3O, Ohio Affiliated Club Coordinator, ARRL

9:00 - 11:45 WEATHER SATELLITES (**SESSION #13**)..... ROOM 3

Moderator: Jeff Wallach, N5ITU
Speakers: "Weather Satellites, Image Processing, and the INTERNET Launch Pad"
Jeff Wallach, N5ITU, Dallas Remote Imaging Group
"High Resolution Images From the Defense Meteorological Satellite Program"
Dr. John DuBois, Ph.D.
"Real Time Demonstration of Weather Satellite Reception and Image Processing with SATVIEW", Tracy Lenocker and Ed Murashie
"Using Quadrafilar Antennas for APT Reception on 137 Megahertz"
Chuck Pocius
"High Resolution Image Processing of Weather Satellite Data on Your PC
Hart Zaun
"Reception of GOES GVAR and Meteosat PDUS High Resolution Imagery
Steve Padar, M. D.

9:00 -10:30 COMBINED MARS (Military Affiliate Radio Service) (**SESSION #14**) .....ROOM 4

Moderator: Bill Bateman
Speakers: Robert L. Sutton, Chief, Army MARS
Ray Collins, Chief, Air Force MARS
Dave Vittum, Chief, Navy/Marine Corps MARS

9:00 - 1:00 VHF/UHF/MICROWAVE (**SESSION #15**) .....ROOM 5

Moderators: Bob French, N8EHA and Merle Rummel, W9LCE
Speakers: "Questions (and Answers?) for VHF/UHF", Joe Lynch, N6CL
"Microwave Band Sharing: The Latest Intelligence"
Paul Rinaldo, W4RI
"No-Tune Converters for the Microwave Bands,
Dr. Richard Campbell, KK7B
"Smith Chart Impedance Matching"
Dr. Allan Katz, K2UYH

9:00 - 10:45 PACTOR (**SESSION #16**) .....ROOM 7

Moderator: Dr. Tom Rink, DL2FAK
Speakers: "The PACTOR Newsletter and Worldwide Users Group, Phil Sussman, KB8LUJ
"The PACTOR-II Protocol", Hans-Peter Helfert, DL6MAA
"PACTOR-II and the DSP-2232", Rod Proctor, KI7ZI
"The SCS PTC-II", Gwyn Reedy, W1BEL

10:00 - 11:00 ELECTRICAL SAFETY DEMONSTRATION (**SESSION #17**) .....ROOM 6

George Maurer and Tony Norman, Dayton Power & Light

10:45 - 11:30 OSSBN (Ohio Single Sideband Net) (**SESSION #18**) ..... ROOM 2

Moderator: Michael J. Mettler, WB8MZZ

10:45 - 12:45 YOUTH IN AMATEUR RADIO (**SESSION #19**) ..... ROOM 4

Moderator: Carole Perry, WB2MGP

Speakers:

Kevin Boudreaux, N5XMH	Age 17
Don La Freniere, KA3DJL	Age 16
Robbie Mehls, KBØMAS	Age 13
Marc Azar, N2XEZ	Age 14
Allison Zettwock, KD4CKP	Age 15
Stefnee Lindberg, NØONP	Age 18
Daniel Sturgeon, KB4KXB	Age 17
Sarah Bill, KBØLIW	Age 14
John Dolecek, KBØLHG	Age 13
Donovan Metcalf, NØUYW	Age 14

Each of these young amateurs will be sharing knowledge and experiences from Ham Radio. Several companies have donated prizes for those 18 years and younger in attendance.

11:00 - 12:00 OHIO ARMY MARS (Military Affiliate Radio Service) (**SESSION #20**) ..... ROOM 7

Moderator: Phyllis Burton, AAA5OH/KB8JJK, State Director

Speakers: John Walker, AAM5OHA/WB8LZB, Assistant Director of Administration
William McGuire, AAM5OHO/AA8DY, Assistant Director of Operations
Norman Bash, AAR5AQ/WA8COB, Packet/AMTOR Instructor
Leon Ritter, AAA6C, Central Area MARS Director

11:15 - 12:45 DIGITAL DIGEST (**SESSION #21**) ..... ROOM 5

Moderator: Dale Sinner, W6IWO, American Digital Radio Society

"Plug and Play:" A Panel Discussion On the Need for Standardization of Connections Between Radios, Modems and Computers"

Panel members include: Paul Newland, AD7I, ARRL Digital Advisory Committee
Jim Jennings, KE5HE
Phil Anderson, WØXI, President, Kantronics
Rod Proctor, KI7ZI, President, AEA
Chip Margelli, K7JA, National Sales Manager, (Yaesu, USA)

11:45 - 12:45 YLRL(YL Radio League) (**SESSION #22**) ..... ROOM 2

Moderator: Christine Haycock, WB2YBA
Speakers: "YLRL Activities" Kay Eyman, WAØWOF
"1996 YL Convention and SAYLARC", Ruth Hoffman, AA2IO

12:00 - 2:15 SLOW SCAN TV (**SESSION #23**) ..... ROOM 3

Moderator: Dr. Don C. Miller, W9NTP

Speakers: "Latest in Scan Converters and Other SSTV Hardware from Japan" Izumi Soma, KH6JDU/JA1KZS

"ROBOT Helper V2.1 Control Program, ROBOGRAB, and Superscan 2001 Paragrab", Tom Hibben, KB9MC

"All You Ever Wanted to Know About JVFAX from DK8JV" Elwood McCollum, KQ4XZ

Forums, continued

1:00 - 2:45 AMPLITUDE MODULATION (**SESSION #24**) ..... ROOM 2

Moderator: Dale Gagnon, KW1I

Speakers: "AM International Update"
"Broadcast Transmitter Conversion Tips"
"AM Issues Panel" .....

1:00 - 1:45 GERITOL NET (**SESSION #25**) ..... ROOM 4

Moderator: Dave Ertel, KJ8V, NCS Coordinator

Speakers: "Introductions and Net Status", John Kirkman, W4WDH, Vice Chairman
"Financial Reports and Minutes", Harold Jones, N4OTC, Secretary
"Status of Awards and Certificates", Jack Hill, W4PPT, Awards Manager
"The Future of the Net and Seasonal Propagation", Dave Ertel, KJ8V, NCS Coordinator

1:00 - 3:00 AMSAT (**SESSION #26**) ..... ROOM 5

Moderator: Bill Tynan, W3XO, President, AMSAT-NA

Speakers: "PHASE 3-D – The Satellite for ALL Amateurs!", Keith Baker, KB1SF, Executive Vice President, AMSAT-NA

"PHASE 3-D Integration Progress Report", Lou McFadin, W5DID, Phase 3-D Integration Facility Supervisor

"The Simplicity of Mode S", Ed Krome, KA9LNV, Southern Indiana AMSAT Area Coordinator

1:00 - 2:00 ELECTRICAL SAFETY DEMONSTRATION (**SESSION #27**) ..... ROOM 6

George Maurer and Tony Norman, Dayton Power & Light

1:30 - 5:00 CONTEST (**SESSION #28**) ..... ROOM 1

Moderator: Doug Grant, K1DG and Charlie Morrison, WZ1R

Speakers: "Contesting from a Level Playing Field: Some Simple Secrets for a Successful Field Day", Jim Stahl, K8MR

"Contesting With QRP: Winning It All With 5 Watts" Randy Rand, AA2U

"Multi-Multi from A Rooftop On the Equator: 9G5AA" Roger Western, G3SXW

"The SprINT: The Most Closely Checked Contest in the World" Larry "Tree" Tyree, N6TR and John Zapisek, K2MM

"The 1995 World Radiosport Team Championship", Eric Scace, K3NA

"HF CW Automated Contesting Using DSP (With Demo)" Mario Miletic, S56A/N1YU

2:00 - 2:45 MIDCARS (**SESSION #29**) ..... ROOM 4

Moderator: Russell E. Hart, Jr., KB8MN

Speakers: "Annual Awards and Certificates", Tom Romstadt, W9NIC, and Bill Pearl, N4FTI

"Mobile Antennas", Tom Williams, W8NSF

2:45 - 5:00 ATV (Fast Scan Television) (**SESSION #30**) ..... ROOM 3

Moderators: Tom O'Hara, W6ORG

Speakers: "Hawaii to California ATV DX Record"
Gordon West, WB6NOA

"Video Effects and Other ATV Applications"
Dave Couch, KA6DPS

3:00 - 5:00 MEDIA EMPHASIS (**SESSION #31**) ..... ROOM 2

Moderator: Bill Pasternak, WA6ITF, NEWSLINE

Speakers: "Emphasis: The Way Others See Us, the Way We See Ourselves"
Burt Hicks, WB6MQV

"Emphasis: Demonstration", Henry Feinberg, K2SSQ

"Emphasis: Print", Joe Phillips, K8QOE

"Emphasis: Television", Keith Glispie, WA6TFD

"Emphasis: Radio", Steve Mendelsohn, WA2DHF

"Emphasis: Education", Carole Perry, WB2MGP

3:00 - 4:00 ELECTRICAL SAFETY DEMONSTRATION (**SESSION #32**) ..... ROOM 6

George Maurer and Tony Norman, Dayton Power & Light

3:00 - 5:00 DIRECTION FINDING (**SESSION #33**) ..... ROOM 7

Moderator: Paul Bohrer, W9DUU

Speakers: "Tools, Techniques, Tracking and Tips", Terry Hudson, KT9V

3:15 - 5:00 QRP EXPEDITIONS (**SESSION #34**) ..... ROOM 4

Moderator: Paula Franke, WB9TBU

Speaker: "Home Brewing: Where Are We Headed?", Dave Benson, NN1G

3:15 - 5:00 TECH TALKS (**SESSION #35**) ..... ROOM 5

Moderator: Gordon West, WB6NOA

Speakers: "Phase Locked Loop Design", Morris Smith, VE3MUE, MOS Digital-Analog IC Division
"Battery Charging Technology", Dennis Blanchard, K1YPP, Jade Products

SUNDAY FORUMS

9:30 - 11:00 VHF AND PREAMP NOISE FIGURE CONTEST (**SESSION #36**) ..... ROOM 1

Moderators: Bob French, N8EHA and Merle Rummell, W9LCE

Speakers: "Six Meter Cuban/American DX", Joe Lynch, N6CL
"New Devices", Rick Littlefield, K1BQT
"Microwave DX", Tom Whitted, WA8WZG
"VHF/UHF Contesting", Joel Harrison, WB5IGF
"Cheap Yagis for VHF", Kent Britain, WA5VJB
"Horns, Dishes, and Lenses", Paul Wade, N1BWT

During the Forum, the Preamp Noise Figure and Gain Measurement Contest will be held in the back of the room. There will be prizes for the best performance on each band from 6m through 10 GHz. Organized by Bruce Lundy, KA8EDE, and the members of the Midwest VHF/UHF Society.

Forums, continued

9:30 - 11:00 BICYCLE MOBILE HAMS OF AMERICA (**SESSION #37**).....ROOM 2

Moderator: Mike Nickolaus, NFØN and Bob Pulhuj, KE8ZJ

Speakers: "INTERNET Happenings for Bikes", Russ Dwarshuis, KB8U
"Lighting, Visibility, and Power Distribution on a Budget", Chris Charron, WB8RSW
"Two Band Bike Mobile Amplifier", Jim Kortge, NU8N
"Q & A Time"

9:30 - 11:00 AMATEUR RADIO BULLETIN SERVICES (**SESSION #38**) .....ROOM 3

Moderator: Hap Holly, KC9RP, Radio Amateur Information Network

Speakers: Bill Pasternak, WA6ITF, Amateur Radio Newsline
Stephan Anderman, WA3RKB, This Week in Amateur Radio
Vern Jackson, WAØRCR, 160 Meter Gateway Radio Newsletter
Phil Thomas, N8LJA, Amateur News Weekly
Shirley Roberts, N8JHW, Amateur Week

9:30 - 11:00 MOBILE RADIO INSTALLATION TIPS (**SESSION #39**) .....ROOM 4

Moderator: Harold Price, WB8QFR, General Motors Corporation

Speakers: Bill Gilmore, WB8FPQ, Chrysler Corporation
"18-Wheeler Mobile", Jerry Stanford, N8YMP, Con-West Trucking

9:30 - 10:30 FCC (**SESSION #40**).....ROOM 5

Moderators: John Johnston, W3BE and William T. Cross, AA3DI

9:30 - 11:00 QRP CLUBS (**SESSION #41**).....ROOM 7

Moderator: Jim Fitton, W1FMR

Speakers: "How to Hold Successful Local QRP Gatherings",
Doug Hendricks, K16DS, President, North California QRP Club
"QRP Club Leadership", Jim Fitton, W1FMR, QRP Club of New England

10:00 - 11:00 ELECTRICAL SAFETY DEMONSTRATION (**SESSION #42**) .....ROOM 6

George Maurer and Tony Norman, Dayton Power & Light

11:00 - 1:30 ARRL FORUM (**SESSION #43**).....ROOM 5

Moderator: Allan Severson, AB8P, Director, Great Lakes Division

Speakers: David Sumner, K1ZZ, Executive President of ARRL
George Race, WB8BGY, Vice Director, Great Lakes Division

11:15-1:00 STATION GROUNDING FOR LIGHTNING PROTECTION (**SESSION #44**) .....ROOM 2

Moderator: Ken Rand, KF4MT

11:15 - 1:00 AMATEUR RADIO AND THE LAW (SESSION #45).....ROOM 3

Moderator: James O'Connell, W9WU

11:15 - 1:00 SCANNER/SHORTWAVE LISTENERS (SESSION #46).....ROOM 4

Moderator: Mike Schulsinger, N8QHV

Speakers: "Frequency Scouting", Cynthia Hufft, KE4MQP, and Bill Owen, KD4HGT, Optoelectronics, Inc.

"The AOR AR 8000 and SDU 5000", Richard Robinson, K4EIH, Electronic Equipment Bank

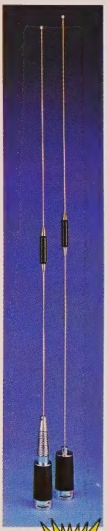
11:15 - 1:00 THOSE AUTOMATIC SWR METERS (SESSION #47).....ROOM 7

Moderator: Ken Glanzer, K7GCO

"How They Work, How to Use Them, How They Compare"

Commercial Grade Antennas for the Discriminating Amateur.

◆◆◆Follow the Leader
in Land Mobile, Base Station & Cellular Antennas



Available from:

R& L Electronics
1315 Hamilton Ave.
Hamilton, OH 45011
(513) 868-6399 (800) 221-7735

Ham Radio Outlet
(800) 854-6046

1995 Hamvention Forum Schedule

FRIDAY – APRIL 28

TIME	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7
1:00 p.m.							
2:00 p.m.	AMSAT 1:00-3:00	Using Ham Radio in the Classroom 1:00-3:00	Alternate Activities *"Make-it & Take it" Free* 1:00-5:00	Packet Radio 1:00-5:00	Antennas 1:00-5:00	Electrical Safety Demonstration 2:00-3:00	Logging Programs 1:00-2:45
3:00 p.m.							
4:00 p.m.	County Hunters 3:15-5:00	QRP Radio Construction 3:15-5:00	*(See Separate Schedule for Saturday and Sunday Activities)*				Operating Techniques for New Hams 3:00-5:00
5:00 p.m.							

SATURDAY – APRIL 29

TIME	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7
9:00 a.m.							
10:00 a.m.	DX 9:00-1:00	ARES 9:00-10:15	WX Satellite 9:00-11:45	Combined MARS 9:00-10:30	VHF/UHF Microwave 9:00-11:00	Electrical Safety Demonstration 10:00-11:00	PACTOR 9:00-10:45
11:00 a.m.		OSSBN 10:30-11:30		Youth in Amateur Radio 10:45-12:45	Digital Digest 11:15 -12:45		Ohio Army MARS 11:00-12:00
12:00 a.m.		YLRL 11:45-12:45	Slow Scan TV 12:00-2:15				
1:00 p.m.				GERITOL Net 1:00-1:45	AMSAT 1:00-3:00	Electrical Safety Demonstation 1:00-2:00	
2:00 p.m.		Amplitude Modulation 1:00-2:45		MIDCARS 2:00-3:00			
3:00 p.m.	Contest 1:30-5:00		ATV *(Fast Scan ATV)* 2:30-5:00			Electrical Safety Demonstration 3:00-4:00	Direction Finding 3:00-5:00
4:00 p.m.		Media Emphasis 3:00-5:00		QRP Expeditions 3:15-5:00	Tech Talks 3:15-5:00		
5:00 p.m.							

SUNDAY – April 30

TIME	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7
10:00 a.m.		Bicycle Mobile Hams of America 9:30 -11:00	Amateur Radio Bulletin Service 9:30 -11:00	Mobil Radio Installation Tips 9:30 -11:00	FCC 9:30 -10:30	Electrical Safety Demonstration 10:00 -11:00	QRP Clubs 9:30 -11:00
11:00 a.m.	VHF and Pre-amp Noise Figure Contest 9:30 -1:00						
12:00 p.m.		Station Grounding for Lightning Protection 11:15 -1:00	Amateur Radio & the Law 11:15 -1:00	Scanner/Shortwave Listeners 11:15 -1:00	ARRL Forum 11:00 -1:00		SWR Meters 11:15 - 1:00
1:00 p.m.							

1995 Hamvention Forum Schedule

NEW
Dual Band HT

Dual Band Handheld FT-51R

Only one Dial/Volume knob required for easier use.

The First Dual Band HT with WINDOWS!

Three dual receive configurations VHF/VHF, UHF/UHF, or VHF/UHF with main band frequency on right or left side. Flexible programming allows transmit on main or sub band.

An 8 character alpha-numeric user help menu scrolls operation instructions in the bottom of the large, backlit display.

Digital battery voltage readout displays condition of battery in use. Scan skip function allows individual memory channel lockout during scanning mode.

Spectrascope™ displays active adjacent frequencies in real time with relative signal strength.

MH-29A2B
LCD Display Mic with Remote Functions. (Optional)

FT-51R
2¼"W x 4¾"H x 1¼"D
(2 Watt version shown.)

The new FT-51R Dual Band HT is state-of-the-art, and easy to use! So easy, you won't need an operating manual. Its exclusive, scrolling instruction menu located in the large, backlit display "window", guides you through total operation while simultaneously viewing the main display window.

You'll like some of the other new, exclusive features, too. Like Spectrascope.™ This unique feature displays real time, continuous scanning of activity on adjacent frequencies in VFO mode or 8 of your favorite memories. A cloning feature duplicates favorite channels to another FT-51R.

A digital battery voltage display, five power output levels, the largest backlit dual band HT keypad made, Smart Mute,™ two VFOs on both VHF and UHF, as well as available 2 Watt and 5 Watt versions, round out the exciting FT-51R. Plus, the optional MH-29A2B Display Microphone allows you to control volume and also access Memory, VFO, Call Channel, Band Selection and scanning functions. All of this in world's smallest dual band HT radio!

See the FT-51R with "windows" at your Yaesu dealer today!

"I can see two frequencies and alpha-numeric all at the same time."

"Scrolling instructions tell me what to do next!"

"I use the Spectrascope to find new contacts faster."

"Yaesu did it again!"

Specifications

- Frequency Coverage
  VHF RX: 110-180 MHz
  TX: 144-148 MHz
  UHF RX: 420-470 MHz
  TX: 430-450 MHz
- Spectrascope™ Display
- Scrolling User Help Menu
- Alpha-Numeric 8 Character Display
- Up/Down Volume/Squelch Controls & Display
- Selectable Sub-Band TX Mute
- Automatic Tone Search (ATS)
- Digital Battery Voltage Display
- AM Aircraft Receive
- Scanning Light System (SLS)
- 120 Memory Channels (80 w/Alpha-Numeric)
- Large Backlit Keypad & Display
- Automatic Repeater Shift (ARS)
- Multiple Scanning Modes
- 3 Selectable Scan Stop Modes with Scan Skip
- User selectable lock function w/15 combinations
- Automatic Power Off (APO)
- TX/RX Battery Savers Built-in
- Handy Cloning Feature
- 5 Selectable Power Output Levels
- Message system with CW ID
- Selectable RX Smart Mute™
- Cross-Band & One-Way Repeat Functions
- DTMF Paging/Coded Squelch Built-in

Accessories
Consult your local dealer.

YAESU
Performance without compromise.℠

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Specifications subject to change without notice. Specifications guaranteed only within amateur bands.
Some accessories and/or options are standard in certain areas. Check with your local Yaesu dealer for specific details.

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Since 1957, Watkins-Johnson Company has been the leading supplier of high quality, high performance receivers for governments and military worldwide. Now, through the magic of digital signal processing and state-of-the-art manufacturing technology, W-J offers the HF-1000 Digital Receiver to short-wave listeners and HAM stations.

Trade publications worldwide have given the HF-1000 high rankings. To give the HF-1000 a tryout, contact your area distributor or dealer today.

Features:

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- 58 Standard IF Bandwidths with exceptional shape factors
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- 3 Fast, Flexible Scanning Modes
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- Bandpass Tuning
- User-friendly, Uncluttered Front Panel with Large, Readable LED
- RS-232 or CSMA Remote Control
- World Power: 97 to 253 Vac, 47 to 440 Hz, 35 W

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Communication Electronics Technology Division
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North York, Ontario M3N 1V7
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Fax: 416-667-9995

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Tel: 45-98-909-999
Fax: 45-98-909-988

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00730 Helsinki
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Fax: 358-0-346-3540

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Cedex, France
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Fax: 33-1-60-63-2485

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00144 Roma - EUR - Italy
Tel: 39-6-591-2515
Fax: 39-6-591-7342

HAMVENTION TICKET REQUIRED

We'd like to welcome everyone to join us for interesting lectures, collectible crafts and other recreational activities. (See page 79 for schedule).

Friday afternoon 1:00 p.m. - 4:00 p.m. at Hara Arena **Free** Make-It and Take-It Craft session.

Saturday 9:00 a.m. to Noon and 2:00 p.m. to 4:00 p.m. and Sunday 9:00 a.m. to Noon at Meadowdale High School. Participate in a variety of craft classes, lectures and bingo. Alternate Activities Luncheons also available on Saturday and Sunday.

Shuttle bus service from Hara Arena is provided on Saturday and Sunday.

HARA ARENA

Friday, April 28 1:00 - 4:00 p.m.
Make It & Take It Room 3

MEADOWDALE HIGH SCHOOL

Saturday, April 29 9 a.m. to 12 Noon - 2 to 4 p.m.

Sunday, April 30 9 a.m. - 12 Noon

See Listing on Page 79.

LUNCHEONS AT MEADOWDALE H. S.

Saturday, April 29 Noon **$9.00 Each**

Wiener Schnitzel, Hot Red Cabbage, German Potato Salad, Hard Rolls and Butter, German Chocolate Cake, coffee, hot tea, or iced tea.

Door Prize Drawings - In Cafeteria following luncheon. You must be present to win. Luncheon ticket is used for this prize drawing.

Sunday, April 30 Noon **$8.00 Each**

Cup of Chicken Gumbo, Ham & Cheese on Whole Wheat Club, Lettuce & Condiments, Vegetable Sticks with Dip, Chocolate Brownie, coffee and tea.

Door Prize Drawings - In Cafeteria following luncheon. You must be present to win. Luncheon ticket is used for this prize drawing.

1:30 p.m. Return to Hara Arena

Thanks for coming ...
See you next year!

COMMANDER II VHF

Band Coverage: 144 to 148 Mhz.

Output Power: 1,000 watts s.s.b., 650 watts c.w., 450 watts FM.

Drive Power: 30 watts for 1,000 watts output.

Tubes: Eimac 3CX800A7 triode (1).

Power Requirement: 117/200/234 V, 50/60 Hz, 20 amperes

Cabinet Size: 14 - 3/4 x 14 - 3/4 " x 6" h

Shipping Wt.: 60 lbs. UPS two cartons.

COMMANDER HF-2500

Band Coverage: 160, 80, 40, 20, 17, 15 (12 & 10 export; also usable in U.S.A. with license)

Output Power: 1,500 watts continuous carrier.

Drive Power: 50 to 60 watts for 1,500 watts.

Tubes: Eimac 3CX800A7 triodes (2)

QSK: $250 extra cost factory installed option.

Power Requirement: 200/234 V, 50/60 Hz, 20 amperes

Cabinet Size: 18"w x 16"d x -3/4" h

Shipping Wt.: 75 lbs. UPS two cartons

COMMANDER HF-1250

Band Coverage: 160, 80, 40, 20, 1, 15 (12 & 10 export; also usable in USA with license)

Output Power: 1,250 watts s.s.b. 1,000 watts c.w., 750 watts rtty.

Drive Power: 50 to 60 watts for 1,250 watts.

Tubes: Eimac 3CX800A7 triode (1).

QSK: $250 extra cost factory installed option.

Power Requirement: 117/200/234 V., 50/60 Hz., 20 amperes.

Cabinet Size: 18"w x 16"d x 7 - 3/4" h

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CHECK OUT OUR NEW PRODUCTS

SEE US IN BOOTHS 469, 470.

1995 Alternate Activities Schedule - Meadowdale High School

SATURDAY - APRIL 29

9:00 - 10:30	10:30 -12:00	12:00 - 2:00	2:00 - 4:00
Holiday Door Swag ROOM 2 $2.00	**Holiday Door Swag** ROOM 2 $2.00	Luncheon and Door Prizes. You must be present to win!	**Sunflower Wreath** ROOM 2 $3.00
French Horn Decor ROOM 3 $2.00	**Gift Bag** ROOM 3 No Charge		**Spring Mop Angel** ROOM 4 $3.00
Call Sign Sweatshirt *No Sewing* Room 4 No charge	**Stencil your Own Stationery** ROOM 4 No Charge		**Sweatshirt with Gold Lame'** ROOM 1 $2.00
Speaker **Room 6** No Charge	**Tupperware Demo** *Microwave Cooking* ROOM 5 No Charge		**Sand Painting** ROOM 3 $1.00
Black Sweatshirt with Gold Lame' ROOM 1 $2.00			**BINGO!!** Cafeteria No Charge
Paper Twist Air Freshener ROOM 7 $3.00			

SUNDAY - APRIL 30

9:00 - 10:30	10:30 - 12:00	12:00 - 2:00
Little Miss Roly Poly ROOM 3 $2.00	**Gift Bag** ROOM 3 No charge	Luncheon and Door Prizes. You must be present to win!
Beaded Necklace ROOM 1 $1.00	**Glass Etching** ROOM 1 $2.00	
Speaker Room 6 No charge	**Speaker** Room 6 No charge	
Turkey Centerpiece ROOM 2 $5.00		

Program subject to change without notice

Flea Market Information

DAYTON hamvention®

Flea Market spaces are NOT selected on a first come, first served basis. The selection will be based on an equitable allocation of available spaces.

Flea Market spaces obtained for the purpose of parking individual vehicles does not comply with the intent of the Hamvention Flea Market operation. Such vehicles may be removed by the Hamvention Committee.

Operating Guidelines

1. Vending or trading is not permitted outside of the operating hours.
2. **No** self-contained vehicles are permitted in the flea market.
3. The standard Flea Market space is approximately 9' x 18' and no vehicle or set-up may exceed the designated marked area.
4. HAMVENTION Flea Market spaces are for the express purpose of selling or trading amateur radio, electronic or related equipment and supplies. Flea Market spaces which are not being used for selling or trading may be reclaimed by HAMVENTION Flea Market personnel and reassigned.
5. Security personnel will be in the area. However, HAMVENTION can not be responsible for the security of individual property.
6. Vehicular traffic in the Flea Market will be severely curtailed during operating hours. Vehicular access to your spaces during operating hours will be by permission of HAMVENTION Flea Market personnel, and may be prohibited during busy times. We **strongly** recommend that you arrive early enough to set-up before operating hours.
7. Bicycles, skateboards, mopeds, roller blades, non-HAMVENTION golf carts or other similar forms of transportation are not permitted in the Flea Market area. Any exception to this policy must be authorized by the HAMVENTION Flea Market Committee.
8. Food and beverage sales by other than Hara Arena are not permitted on the premises.
9. **No** open flames, propane tanks, or any other potential fire hazards will be permitted in the Flea Market area.
10. **No** camping is permitted in the Flea Market area.
11. **No** paging in the Flea Market due to zoning restrictions.
12. **No** firearms or weapons are permitted on the premises for sale or any other purpose.
13. FLEA MARKET SPACES ARE NOT TRANSFERABLE !!! Illegal trading of spaces may result in your removal. Any exceptions to this policy must be approved by the HAMVENTION Flea Market Committee, in advance.
14. A special general admission ticket issued by the Flea Market Committee is required for admission to set-up.
15. The use of portable generators in the Flea Market is strongly discouraged. Any conflict which develops over noise or fumes will be resolved in favor of the individuals being disturbed by the generator.
16. Vehicles other than small utility trailers are not permitted inside the reserved Flea Market tent area.
17. Any violation of HAMVENTION rules can be used by HAMVENTION Flea Market personnel to justify the removal of any vendor.
18. All Flea Market vendors must be clear of the premises by 10:00 p.m. Sunday.
19. If excessive trash is left, or damage to the blacktop, (as determined by Hara Arena), the vendor may be assessed an additional charge.

SELLING HOURS

Friday:	8:00 a.m. to 6:00 p.m.
Saturday:	6:00 a.m. to 5:00 p.m.
Sunday:	6:00 a.m. to 4:00 p.m.

Amplifiers, ATV Down Converters & Hard to Find Parts

LINEAR AMPLIFIERS

HF Amplifiers
PC board and complete parts list for HF amplifiers described in the **Motorola Application Notes and Engineering Bulletins:**

AN779H	(20W)
AN779L	(20W)
AN 762	(140W)
EB63	(140W)
AR305	(300W)
AN 758	(300W)
AR313	(300W)
EB27A	(300W)
EB104	(600W)
AR347	(1000W)

2 Meter Amplifiers (144-148 MHz)
(Kit or Wired and Tested)
35W - Model 335A, $79.95/$109.95
75W - Model 875A, $119.95/$159.95

440-450 MHz Amplifiers
(SSB-FM-ATV)
100W - Model KEB 67, $159.95

ATV Down Converters
(Kit or Wired and Tested)
Model ATV-3 (420-450)
(Ga AS - FET)
$49.95/$69.95
Model ATV-4 (902-926)
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HARD TO FIND PARTS

- **RF Power Transistors**
- **Broadband HF Transformers**
- **Chip Caps** - Kemet/ATC
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For detailed information and prices, call or write for a our free catalog!

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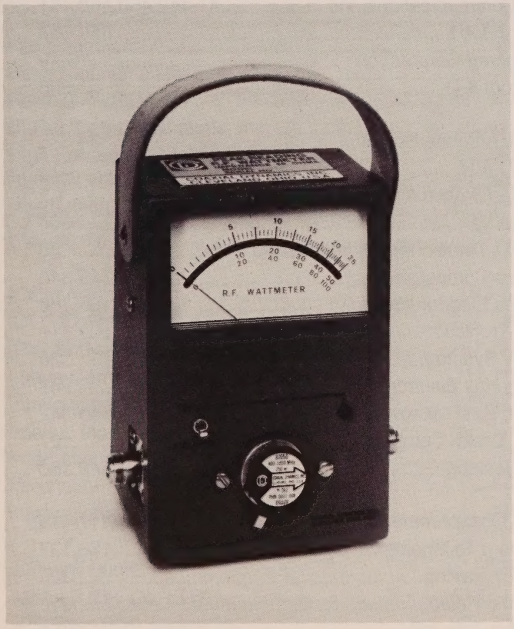

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Model 83000-A Peak and Average Reading Wattmeter is similar in appearance and operation to our standard Model 81000-A. With a flip of a switch, the **Model 83000-A** inserts a peak reading amplifier between the elements and the meter, and converts from an average reading to a peak reading wattmeter.

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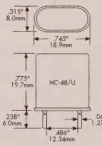
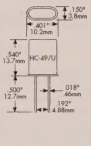


Resistance Weld HC-49/U



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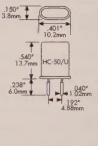

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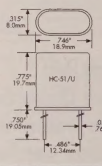

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Exhibitor's Booth Location Map

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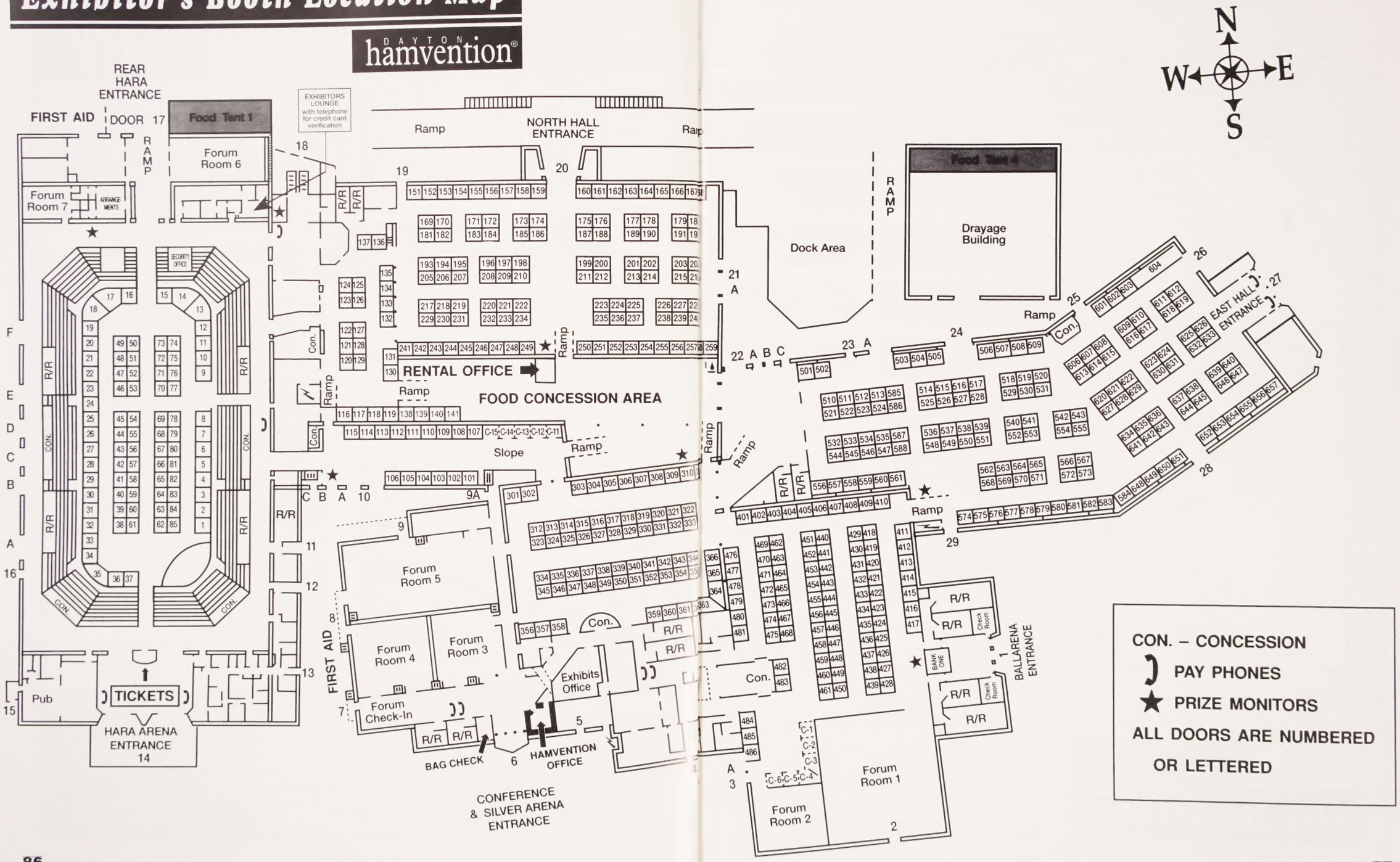
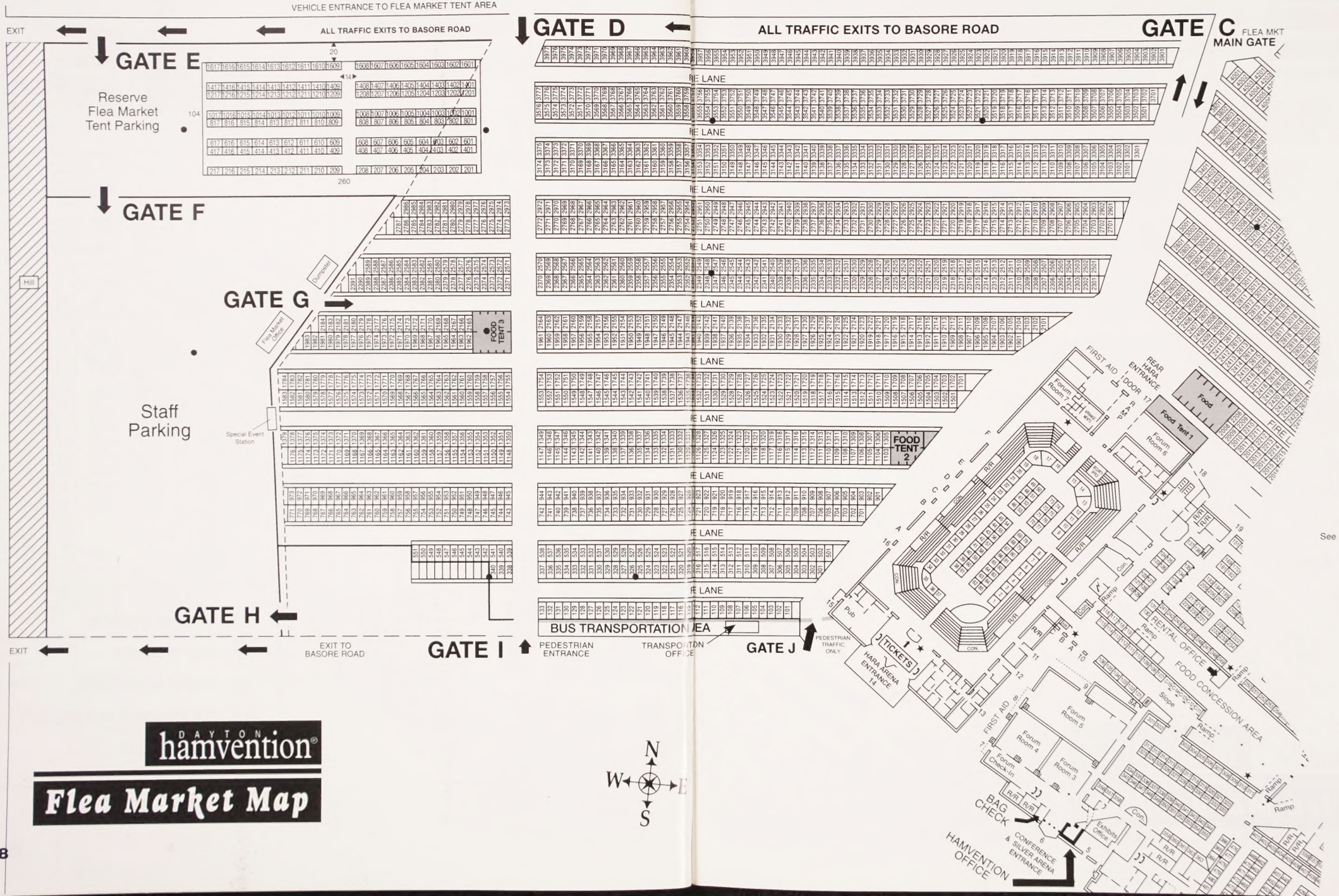


CON. – CONCESSION

PAY PHONES

★ PRIZE MONITORS

ALL DOORS ARE NUMBERED OR LETTERED



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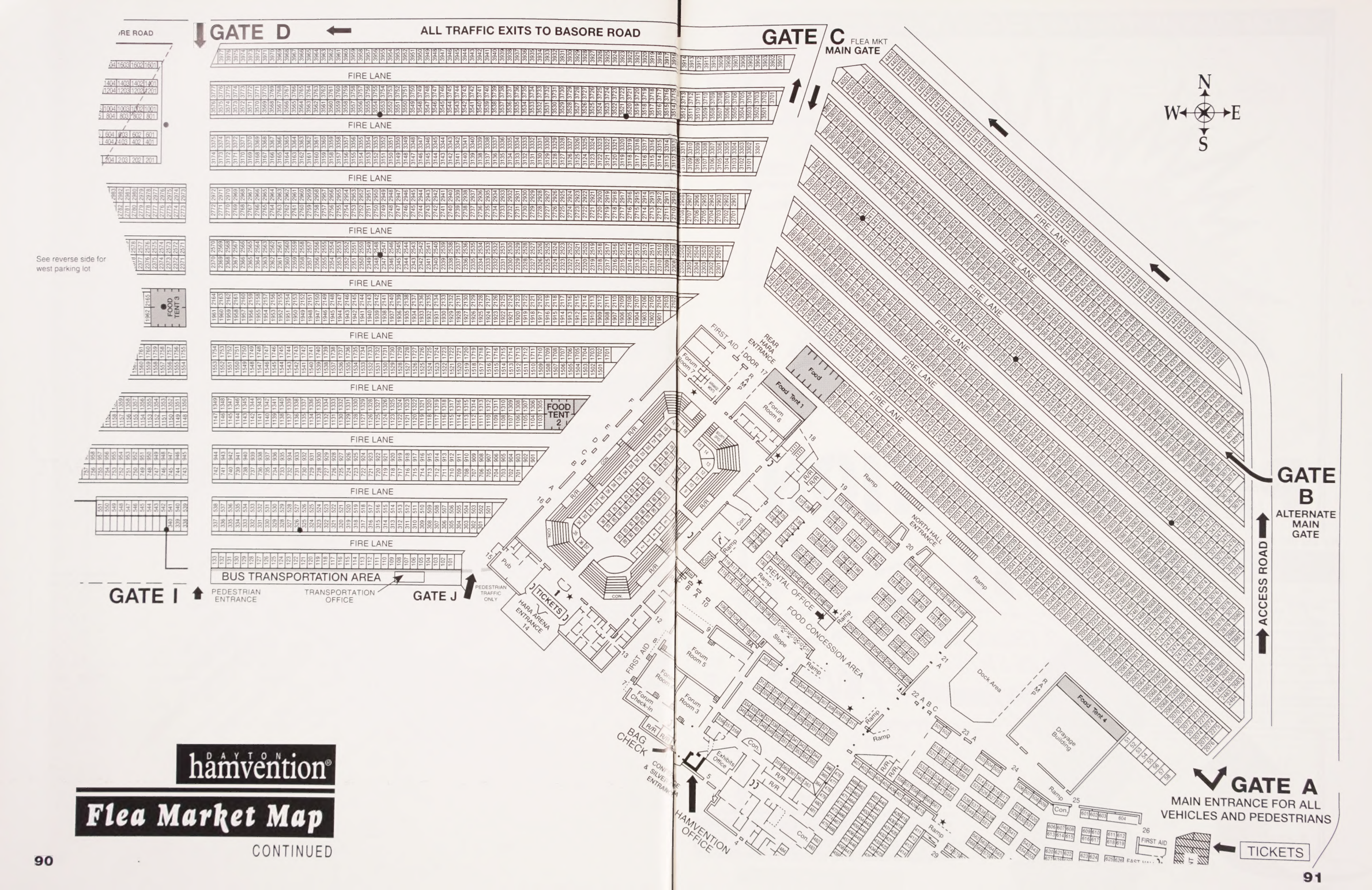
Flea Market Map

See reverse side for east parking lot



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Flea Market Map

CONTINUED

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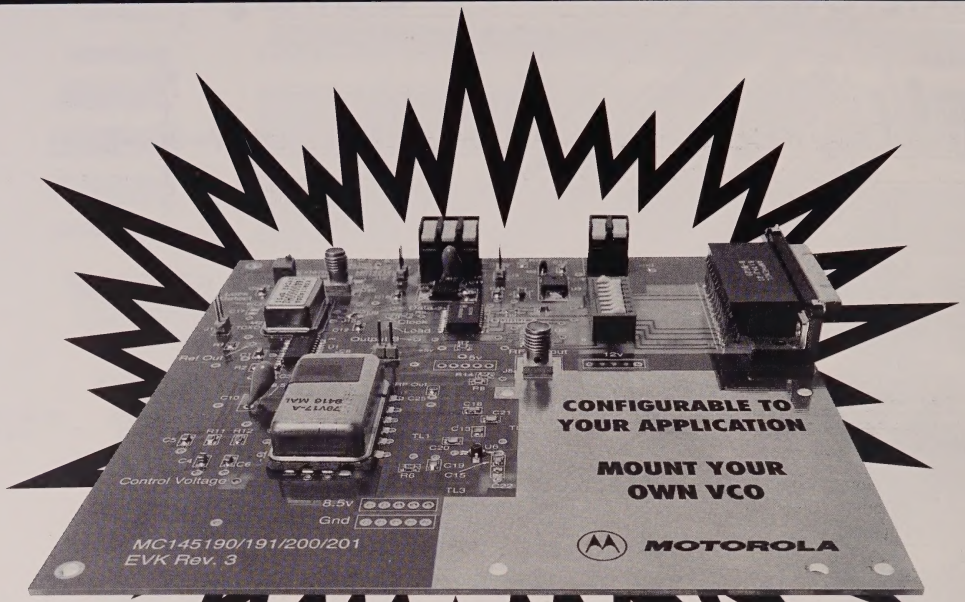

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1100	MC145191*	7 mA @ 5 V
1100	MC145192	6 mA @ 2.7 V
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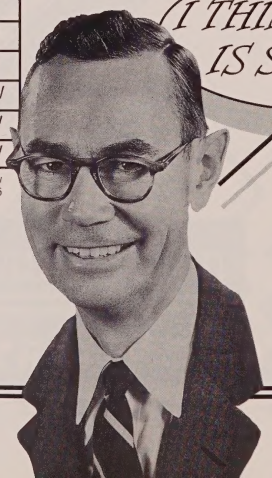

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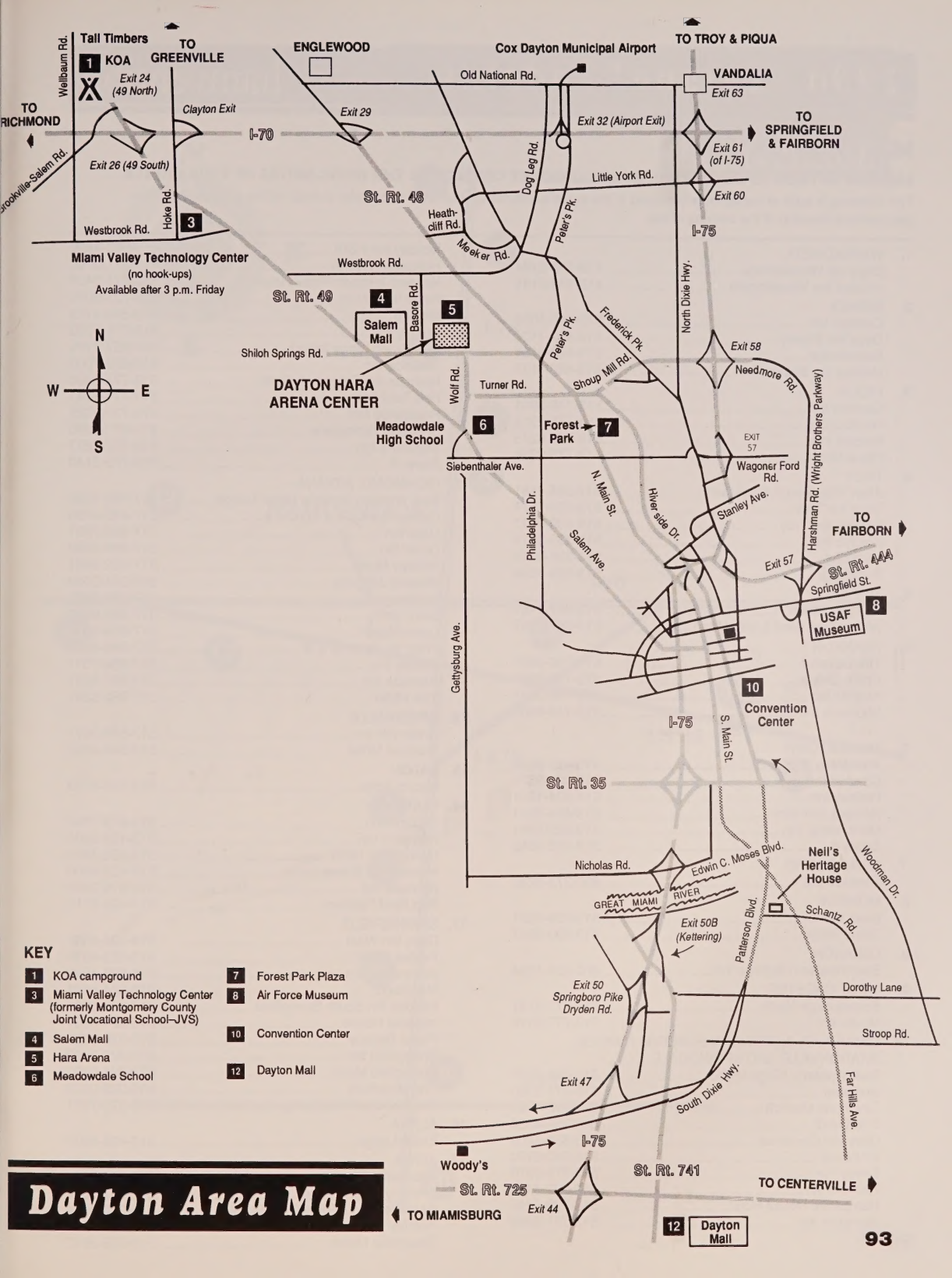

KEY

- 1 KOA campground
- 3 Miami Valley Technology Center (formerly Montgomery County Joint Vocational School–JVS)
- 4 Salem Mall
- 5 Hara Arena
- 6 Meadowdale School
- 7 Forest Park Plaza
- 8 Air Force Museum
- 10 Convention Center
- 12 Dayton Mall

Dayton Area Map

May 17, 18, 19, 1996

LODGING OUTSIDE OF DAYTON CAN BE ARRANGED BY CONTACTING THE HOTEL/MOTEL OF YOUR CHOICE.

The following is a list of hotels/motels located in the areas surrounding Dayton. Please refer to map on the adjacent page for geographical location of the outlying areas.

1. WAPAKONETA
   - Days Inn Wapakoneta 419-738-2184
   - Holiday Inn Wapakoneta 419-738-8181
2. SIDNEY
   - Comfort Inn 513-492-3001
   - Days Inn Sidney 513-492-1104
   - Econolodge 513-492-9164
   - Holiday Inn Sidney 513-492-1131
3. PIQUA
   - Comfort Inn 513-778-3001
   - Ho-Jo 513-773-2314
   - Knights Inn 513-773-6275
   - Piqua Motel 513-773-3234
4. TROY
   - Allen Villa (Bed & Breakfast) 513-335-1181
   - Days Inn Troy 513-339-7571
   - Holiday Inn Troy 513-335-0021
   - Knights Inn 513-339-1515
   - Micro-Tel 513-335-0013
   - Super 8 513-339-6564
5. TIPP CITY
   - Heritage Motel 513-667-2481
   - Willow Tree (Bed & Breakfast) 513-667-2957
6. FRANKLIN
   - The Cavalier 513-746-3961
   - EconoLodge 513-746-3627
   - Knights Inn 513-746-2841
   - Shoney's Inn 513-743-8881
7. MIDDLETOWN
   - Affordable Inn 513-423-9403
   - Comfort Inn 513-420-9378
   - Holiday Inn 513-424-1201
   - Howard Johnson 513-424-3551
   - Manchester Inn 513-422-5481
   - Super 8 513-422-4888
7. SPRINGBORO
   - Ramada Ltd. 800-272-6232
8. MONROE
   - Days Inn 513-539-9221
   - Stony Ridge 513-539-9247
8. LEBANON
   - Best Western Heritage Inn 800-528-1234
9. WEST CHESTER
   - EconoLodge North 513-777-5121
   - Ho Jo Inn 513-777-5170
10. CINCINNATI (NORTHERN SUBURBS / MASON, SHARONVILLE AND SPRINGDALE
    - Best Western, Kings Island 513-398-3633
    - Budgetel 513-671-2300
    - Cincinnati Marriott 513-772-1720
    - Courtyard 513-733-4334
    - Days Inn Cincinnati 513-554-1400
    - Embassy 513-733-8900
    - Envoy Inn 513-771-0370
    - Fairfield Inn 513-772-4114
    - Hampshire House Hotel 513-772-5440
    - Hampton Inn 513-771-6888
    - Holiday Inn I-275 513-563-8330
    - Holiday Inn North 513-771-0700
    - Howard Johnson Plaza Hotel 513-771-3400
    - Kings Island Inn 800-727-3050
    - Motel 6 513-563-1123
    - Quality Inn 513-771-5252
    - Quality Inn Kings Island 800-227-7100
    - Ramada Inn 513-829-7000
    - Ramada Inn Cincinnati North 513-771-0300
    - Red Roof Inn 513-771-5141
    - Residence Inn 513-771-2525
    - Sheraton Springdale 513-671-6600
    - Signature Inn 513-772-7877
    - Super 8 513-772-3140
11. RICHMOND, INDIANA
    - Best Western Imperial Motor Lodge 317-966-1505
    - Comfort Inn 317-935-4766
    - Days Inn 317-966-7591
    - Dollar Inn 317-966-4900
    - Holiday Motel 317-962-5561
    - Howard Johnson 800-654-2000
    - Knights Inn 317-966-6682
    - Lee's Inn 317-966-6559
    - Leland Hotel 317-966-5000
    - Philip W. Smith B & B 317-966-8972
    - Quality Inn 317-966-7511
    - Ramada Inn 317-962-5551
    - Villa Motel 317-962-5202
12. GREENVILLE
    - Greenville Inn 513-548-3613
    - Stardust Motel 513-548-4154
13. EATON
    - EconoLodge 513-456-4183
14. FAIRBORN
    - Comfort Inn 513-879-7666
    - Hampton Inn 513-429-5505
    - Holiday Inn I-675 513-426-7800
    - Homewood Suites 513-429-0600
    - Ramada Inn 513-879-3920
    - Red Roof Fairborn 513-426-6116
17. SPRINGFIELD
    - Days Inn West 513-324-5561
    - Fairfax Motel 513-323-4915
    - Hampshire Inn 513-322-4942
    - Heartland 513-324-5601
    - Holiday Inn South Springfield 513-323-8631
    - Imperial House 513-324-5501
    - Parke Terrace 513-325-8721
    - Springfield Inn 513-322-3600
    - Springfield Motel 513-325-6991
    - The Meadows 513-323-0872
    - Town House Motor Lodge 513-325-7661
16. ALPHA
    - EconoLodge 513-426-5827
17. XENIA
    - Allendale Inn 513-376-8124
    - Anthony Wayne Motel 513-767-9004
    - Best Western/Regency Inn Motel 513-372-9954
    - Holiday Inn Xenia 513-372-9921
    - Tecumseh Motel 513-372-2512

Regional Lodging Map

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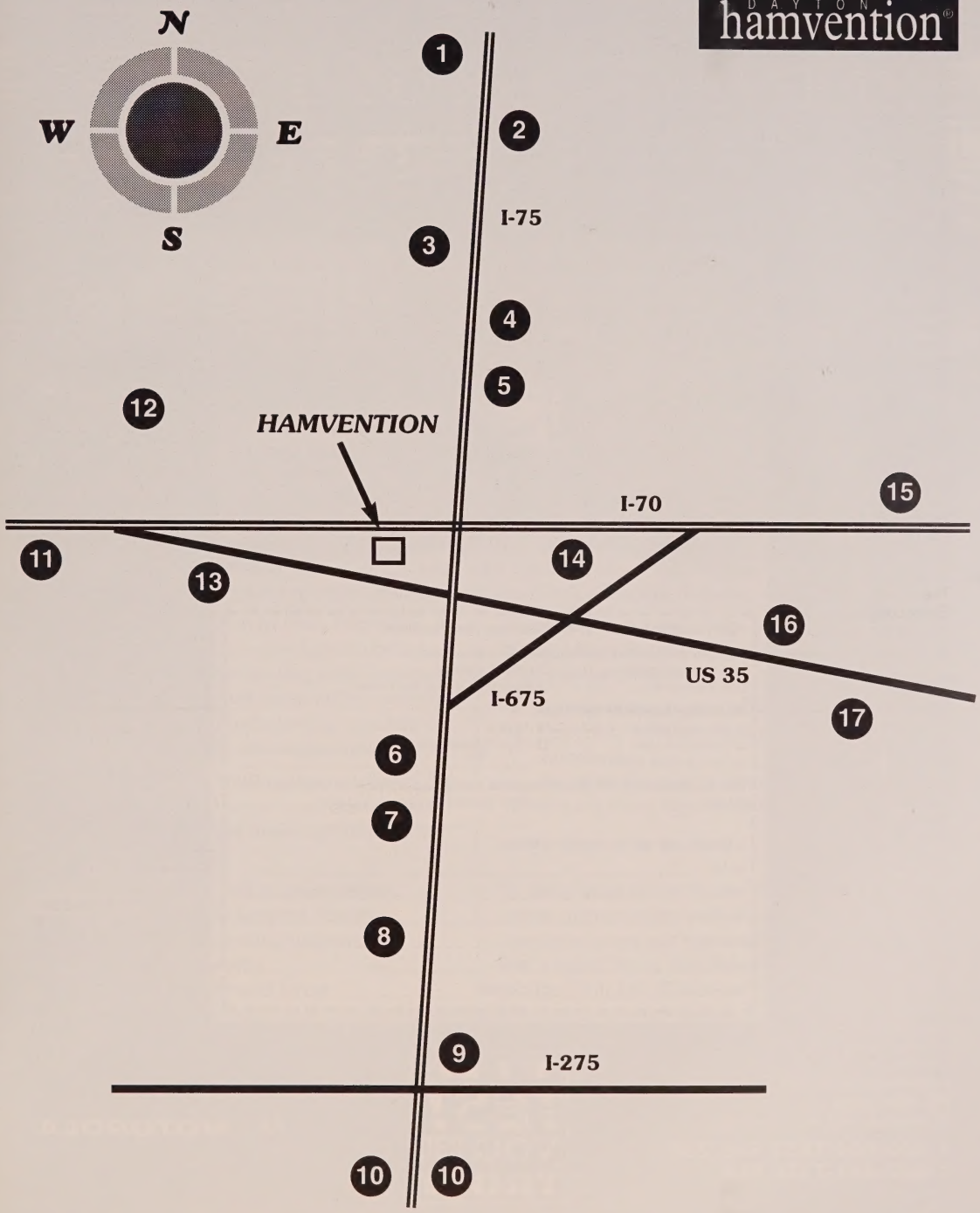

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- ❑ Two-way radios
- ❑ Cellular phones
- ❑ Cellular base sites
- ❑ Pagers
- ❑ Other (please specify) _____

Who is responsible for purchasing test equipment within your organization?
- ❑ I am
- ❑ Other (please give name and title) _____

❑ **Please call me to arrange a demo.**

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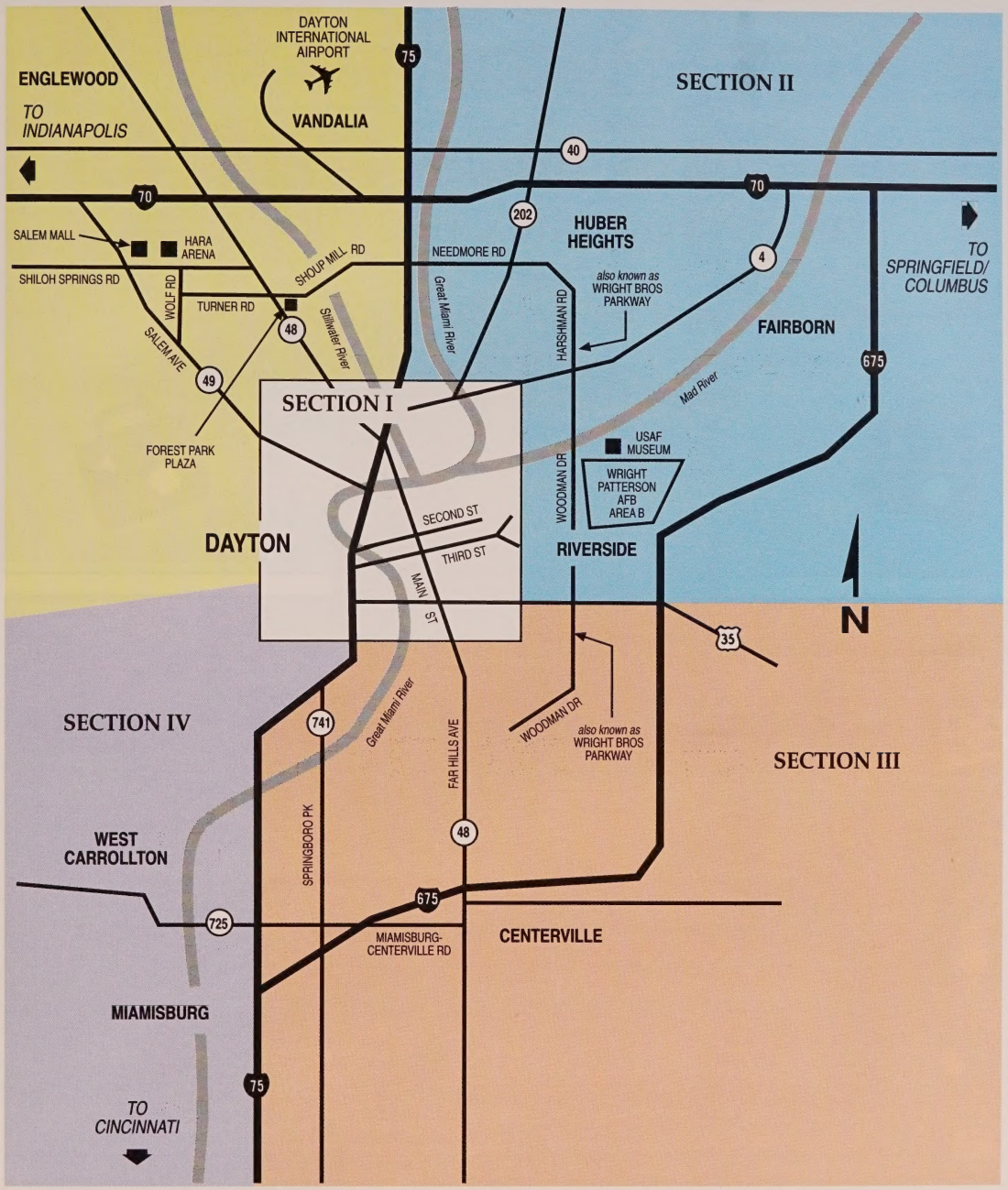
DOWNTOWN (Section "I" on map)					
Days Inn Dayton	330 W First St	Dayton, OH	45402	(513)223-7131	H M R L A P
Dayton Marriott	1414 S Patterson Blvd	Dayton, OH	45409	(513)223-1000	H M R L A P W
Price's Steamboat House B&B	6 Josie St	Dayton, OH	45403	(513)223-2444	M R A
Radisson Inn	11 S Ludlow St	Dayton, OH	45402	(513)461-4700	H M R L A W
Stouffer Renaissance Hotel	E Fifth & S Jefferson St	Dayton, OH	45402	(513)224-0800	H M R L A P W
I-75 NORTHEAST (Section "II" on map)					
Best Inn	5551 Springfield St	Dayton, OH	45431	(513)258-2233	H
Days Inn	1891 Harshman Rd	Dayton, OH	45424	(513)236-8083	
Dayton Motor Hotel	639 Keowee St	Dayton, OH	45404	(513)222-5518	
Holiday Inn North	2301 Wagner Ford Rd	Dayton, OH	45414	(513)278-4871	H M R L P W
Howard Johnson	7575 Poe Ave	Dayton, OH	45414	(513)454-0550	H M L A
Plaza Motel	1728 Stanley Ave	Dayton, OH	45404	(513)224-1266	
Radisson Inn Dayton	2401 Needmore Rd	Dayton, OH	45414	(513)278-5711	H M R L A W
Residence Inn North by Marriott	7070 Poe Ave	Dayton, OH	45414	(513)898-7764	H M P
Riverside Motel	5441 Springfield St	Dayton, OH	45431	(513)254-9700	M A
Royal Motel	1450 N Keowee St	Dayton, OH	45404	(513)224-9636	H A
Scottish Inns	845 E National Rd	Vandalia,OH	45377	(513)898-5871	H A
Travelers Motel North	2833 N. Dixie	Dayton,OH	45414	(513)277-6585	
I-70 EAST (Section "II" on map)					
Dayton Super 8 Motel	8110 Old Troy Pk	Huber Heights, OH		45424	(513)237-1888 H
Travelodge Dayton	7911 Brandt Pk	Huber Heights, OH		45424	(513)236-9361
I-75 SOUTHEAST (Section "III" on map)					
Courtyard by Marriott	100 Prestige Place	Miamisburg, OH	45342	(513)433-3131	H M R L A P W
Guest Quarters Suite Hotel	300 Prestige Place	Miamisburg, OH	45342	(513)436-2400	H M R L P W
Holiday Inn Dayton Mall	31 Prestige Plaza	Miamisburg, OH	45342	(513)434-8030	H M R L P
Kettering Inn	2700 S. Dixie Drive	Dayton, Ohio	45409	(513)298-1411	
Motel 6 South	8101 Springboro Pk	Miamisburg, OH	45342	(513)434-8750	H
Parkview	4503 S. Dixie Dr.	Dayton, Ohio	45439	(513)293-4111	
Red Horse Motor Inn	4625 S Dixie Dr	Dayton, OH	45439	(513)294-7500	
Relax Inn	3333 S Dixie Dr	Dayton, OH	45439	(513)299-3581	H
Residence Inn South by Marriott	155 Prestige Place	Miamisburg, OH	45342	(513)434-7881	H
Traveler's Motel South	4503 S. Dixie Dr.	Dayton, Ohio	45439	(513)293-4111	
I-675 SOUTHEAST (Section "III" on map)					
Country Hearth Inn	1944 Miamisburg-Centerville Rd	Dayton, OH	45459	(513)435-1550	H M P
Days Inn Dayton South	3555 Miamisburg-Centerville Rd	Dayton, Ohio	45449	(513)847-8422	H M R L P
Hampton Inn South	8099 Old Yankee St	Dayton, OH	45458	(513)436-3700	H M P W
I-75 SOUTHWEST (Section "IV" on map)					
Best Western Continental Inn	155 Monarch Ln	Miamisburg, OH	45342	(513)866-5500	H M R L
Holiday Inn Dayton South	2455 Dryden Rd	Moraine, OH	45439	(513)294-1471	H M R L P W
Ideal Motel	2450 Dryden Rd	Moraine, OH	45439	(513)298-0380	R L
Knights Inn Dayton South	185 Byers Rd	Miamisburg, OH	45342	(513)859-8797	M
Red Roof InnDayton Miamisburg	222 Byers Rd	Miamisburg, OH	45342	(513)866-0705	
Signature Inn Dayton South	250 Byers Rd	Miamisburg, OH	45342	(513)865-0077	H M
Super 8 Motel	2140 S Edwin C Moses Blvd.	Dayton, OH	45408	(513)223-0166	M L A
I-70 WEST (Section "V" on map)					
Cross Country Inn Englewood	9325 N Main St	Dayton, OH	45415	(513)836-8339	H P
Days Inn Dayton/Brookville	100 Parkview Dr	Brookville, OH	45309	(513)833-4003	H
Dayton Airport Inn	Dayton Intl Airport	Vandalia, OH	45377	(513)898-1000	M R A P
Hampton Inn Northwest	20 Rockridge Rd	Englewood, OH	45322	(513)832-2222	H M A W
Holiday Inn Dayton Airport NW	10 Rockridge Rd	Englewood, OH	45322	(513)832-1234	H M R L A P
Motel 6 Dayton Northwest	1212 S Main St	Englewood, OH	45322	(513)832-3770	H
I-75 NORTHWEST (Section "V" on map)					
Best Western Dayton North	3636 N Dixie Dr	Dayton, OH	45414	(513)276-6151	M R
Comfort Inn	7125 Miller Lane	Dayton, OH	45414	(513)890-9995	H P
Cross Country Inn Vandalia	550 E National Rd	Vandalia, OH	45377	(513)898-7636	H
Days Inn North	7470 Miller Lane	Dayton, OH	45414	(513)898-4946	P
Econo Inn	4101 Keats Rd	Dayton, OH	45414	(513)274-1116	H L
Econolodge North	2221 Wagner Ford Rd	Dayton, OH	45414	(513)278-1500	H A
Fairfield Inn by Marriott	6960 Miller Lane	Dayton, OH	45414	(513)898-1120	H M
Knights Inn Dayton North	3663 Maxton Rd	Dayton, OH	45414	(513)898-1212	M
Motel 6 Dayton North	7130 Miller Lane	Dayton, OH	45414	(513)898-3606	H
Ramada Inn Dayton North	4079 Little York Rd	Dayton, OH	45414	(513)890-9500	H M R L A
Red Roof Inn Dayton North	7370 Miller Lane	Dayton, OH	45414	(513)898-1054	
35 West Motel	7040 W Third St	Dayton, OH	45427	(513)835-5965	
Vandalia Inn	75 Corporate Center Dr	Vandalia, OH	45377	(513)898-8321	H M R L A

Area Lodging Map

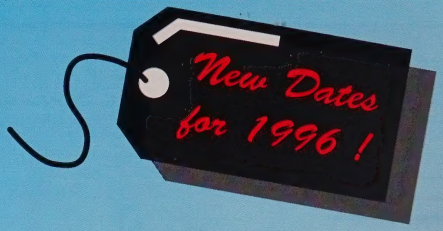
DAYTON hamvention®



Legend

H - Handicapped Facilities
L - Lounge P - Pool
M - Meeting Room
W - Health Club
R - Restaurant
A - Airport Limo Service

DAYTON hamvention®



Dayton Hamvention® would like to invite you back in 1996!

The dates next year will be May 17, 18, 19, 1996.

Same location - Hara Arena.

We enjoyed having you!

Have a need for a Professional Production Company?

Since 1969, the Dayton Hamvention has been served by Acoustek Productions, Vandalia, Ohio. In addition to the Dayton Hamvention, we produce shows of all types, across the United States.
If you have a need for a profession production of your next event, Acoustek Productions may be your solution.

- Conventions
- Live Theater
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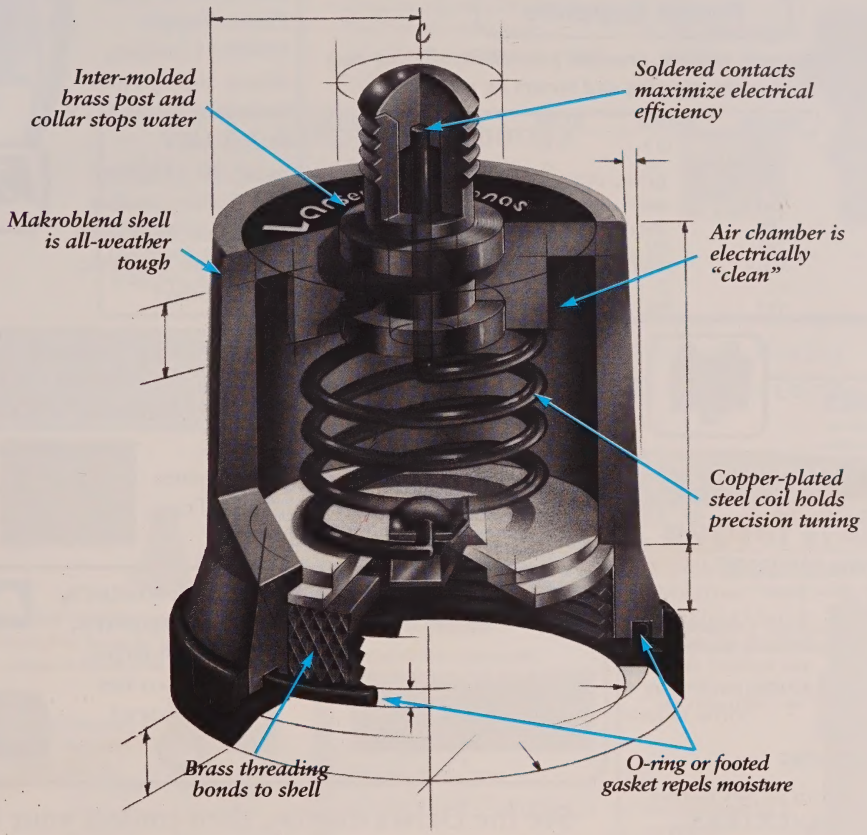
- Political Presentations
- Stage Lighting, Sound, Paging and Video Systems

For more information on how Acoustek Productions Services can help your organization, please contact:
Garry Matthews, KB8GOL
Phone (513) 890-1212
FAX (513) 454-1220.

ACOUSTEK
Production Services

A Quality Antenna Is Like A Quality Human Being— It's What's Inside That Counts.


Inter-molded brass post and collar stops water
Soldered contacts maximize electrical efficiency
Makroblend shell is all-weather tough
Air chamber is electrically "clean"
Copper-plated steel coil holds precision tuning
Brass threading bonds to shell
O-ring or footed gasket repels moisture

There are two good ways to judge a quality antenna.

First, you ask the right questions. Is the coil precision-made like the NMO mount VHF type shown? Is the whip copper-plated (Kūlrod) so signal energy becomes distance, not heat? Is the coax top quality Belden for low noise and long life?

The other way is to simply do what experienced amateurs have done for almost thirty years, ask for Larsen. An American brand, started by a HAM, with a proven reputation for innovation, quality and service.

Either way, the more you learn about antennas, the more you'll appreciate Larsen.

For a free catalog of our mobile, on-glass, portable and base station antennas, call 800-426-1656.

Larsen®
The Amateur's Professional™

DAIWA Rugged Reliability for Today's Amateur!

See Daiwa's complete line at Dayton, they offer exceptional quality and at very competitive prices!

Power Supplies

High quality, rugged, reliable, crossbar protection, offering easy access or y connectors, cig plug and meters on most models!!

	PS120M	PS140II	RS300	RS40X	PS50TM
Voltage (VDC)	3-15	13.8	1-15	1-15	13.8
Current (ICS)	12	14	30	40	5.2
Current (cont.)	9.2	12	24	32	4.2
Ripple(max.)	3mV	3mV	3mV	3mV	3mV
Regulation	1%	1%	1%	1%	2%
Cooling Fan	NO	NO	NO	YES	NO
Size(inch.)	5x4x9	5x4x9	7x6x9	11x5.5x9	6x3x9
Weight (lbs.)	11	11	18	22	6
Meter	YES	NO	YES	YES	YES

Daiwa Switching Power Supply SS404 - Compact, 40amp supply Auto Switching - 100-117V or 220-240V Input: 70 - 132V or 140-264V; crossbar protection.Additional models are available, CALL today!

APS300 - Sophisticated Automatic Voltage Regulator, battery charger, with UPS functions. **Input:** 160-260V AC **Output** - 1-15 DC variable Output current Max. 30A Rated 24Amps continuous UPS current 12 A,6A.

SWITCHES

• Professional Cavity Type Coaxial Switches •

	CS201	CS201GII	CS401/401G
Freq.	600Mhz/1Ghz	2Ghz	800MHz/1.3GHz
Isolation	60 dB 600MHz	50dB 1 GHz	60dB 300 MHz
Conn.	SO239	N	N

SWR/PWR METERS

• Famous Cross Needle Meters •

MOBILE

CN410M - Mobile 3.5-150MHz • **CN460M** - Mobile 140-450MHz • **CN465M** - Mobile 140-450MHz

BASE

CN101 1.8-150MHz • **CN103M** 140-525MHz w/ UHF Conn • **CN103N** 140-525MHz w/ N Conn.

Daiwa IV300

DC-AC Inverter

INPUT: DC 12V
OUTPUT: AC 220V - 117V max. 300W Rated 240W

DC-DC CONVERTERS...

Run your 13.8VDC accessories on any 24VDC system! High performance and superior commercial construction.

SD-405IIB 4 amp • **SD-412II** 12 amps
SD-416II 16 amps • **SD-303FII** 30 Amps

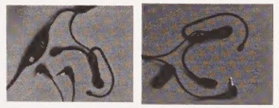
ANTENNA TUNERS...

High quality construction, unique cross needle meter, convenient reading of SSB, one of the most accurate on the market.

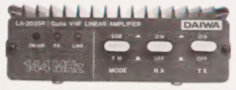
CNW 320 3.5-54MHz 150CW
CNW 420 1.8-30MHz, 11 bands 200W CW 3.5-30MHz
CNW520 3.5-30MHz, 8 Bands, 1KW CW 50% duty
CNW 727N 140-150 (220W) & 430-450MHz (150W)
The Only VHF/UHF tuner available

Daiwa Headsets and Earphone Mics

EX600- Earphone Mic for Cellular Phones
EX700- Earphone Mic for Handheld Transceivers with PTT Switch



DAIWA



Switches, Meters, Power Supplies, Linear Amps, Accessories and more!

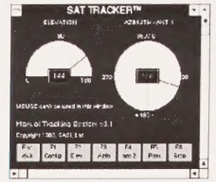
DAIWA

See the Daiwa display, then contact your favorite dealer!

EDCO Family of Products

SAT TRACKER and EMOTO... a winning combination!

The **SATTRACKER™** antenna controller is a feature-rich, low-cost system of hardware and software that can be used Yaesu and Emoto AZ-Els to accurately track any satellite or celestial object from horizon to horizon—including rapidly moving low orbit satellites like military "LEO" satellites, weather satellites, and amateur radio "MICROSAT" Satellites.



SATTRACKER™ Features

- High-speed bidirectional communications through parallel interface.
- Mature, field proven design with high-reliability.
- Manages antenna control system even when obstructions block full antenna movement.
- Compatible with REALTRAK™, Instant Track™ & other satellite trackers.
- All cables, documentation and software included

Frequency Manager for SAT TRACKER™

- Usable on any serial port without conflicts.
- Supports all ICOM transceivers (including the new 820) and receivers.
- Supports mixing of transmitters and receivers.
- Supports for KENWOOD-790 and YAESU-736.
- 10Hz Tuning steps for all radios.

EMOTO EV700D5X

This AZ - EL Rotator is fully computer compatible using Sat Tracker Software or other user programs. The EV700D5X is the strongest AZ - EL system available for todays amateur market. See the complete line of Emoto rotators at our Dayton booth!

A NEW GENERATION . . . THE CREATE FAMILY!

CREATE Rotators Feature:

Cast and machined aluminum gearing, worm drive brake gearing, auto, mast clamp guides, preset (on 3 models), water tight connectors, circle overlay available for USA. The best choice for long term reliability.

CLP5130-1 •

This high gain, wide-band VHF/UHF antenna is excellent for DXing, Amateur Radio, FM broadcast, scanners, VHF/UHF television, Govt., cellular & business band use.

ROOF TOP TOWERS

model	height	base width	max. wind load ft.2	max. vert. load lbs.	weight
CR18	5'10"	31 1/2"	21@90mph	440	18
CR30	9'10"	39"	27@90mph	1,322	33
CR45	14'9"	39"	23@90mph	881	57

Stop By The EDCO Booth for Product Demos! Then See Your Favorite Dayton Dealer For The Best DEAL!

DESK STAND POWER SUPPLY

- **Slow charge radio/operate without draining batteries.**
- **Dual output for radios with dual inputs.**
- **Connectors cables with 1.3mm and 2.8mm plugs. (supplied) choose plug size to fit your scanner.**
- **Powers radio from standard 117VAC current.**

The **PSU101 BY SSE** is a high quality, custom designed combination desk charger/regulated power supply. Perfect for Base Station use of your handheld at home or office!

FOR:

BC200/205/25000XLT, SC150Y/B

Yupiteru MVT 5000, 7000,7100

AR8000, AR2700, AR1000XLT & 1500

PSU101T: *9V Version for use with PR043, 46, 51 and other Realistic Scanners.*

NEW PRODUCTS FROM SCANMASTER

You already know the popular Scanmaster 1300 and 2200 Discones and Sc[illegible]aster 1500 wideband fiberglass scanner base antennas - quality products, custom manufactured for EDCO in England. Now, in response to your re[illegible]ests, we are expanding the Scanmaster line with the addition of four new products! Each should prove to be the Best Seller" that Scanmaster's origin[illegible] three models have become! See the complete line at the EDCO booth.

SCANMASTER DOUBLE-DISCONE BASE
This super high performance, ultra wideband, double discone offers substantially highe[illegible] gain and lower radiation angle compared with conventional designs.

QS300 ADJUSTABLE DESK TOP BASE STAND
Heavy-duty, fully adjustable desk-top radio stand.

QS200 MOBILE HANDHELD HOLDER
Holds your radio firmly in position, yet is easily and quickly removed for security!

SCANMASTER MAG MOUNT MOBILE
A high-grade, magnetic mount, ultra-wideband mobile scanner antenna. One of the best from 100KHz to over 1000MHz!

These Products Distributed by:
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SEE US IN BOOTHS 575-579. WE ARE A HAMVENTION PRIZE DONOR.

SEE US IN BOOTHS 575-579. WE ARE A HAMVENTION PRIZE DONOR.

SEE The New Star at Dayton!!!
AR2700 HandHeld Scanner

- **Full featured with Computer Interface**
- **500kHz- 1300MHz, less cellular**
- **AM, NFM, WFM**

AOR Scanners of the Future

AR8000, New for 1995. Wider coverage, all mode. Computers I/O 4 level alpha numeric readout.

- 500kHz - 1900MHz*
- 1000 memory channels
- AM, FMN, FMW, CW, LSB, USB
- Band scope display
- AM ferrite antenna
- Password protected, data clone
- Optional RS232 Interface

*Cellular blocked – No block to qualified customers.

AR3000A... The world at your fingertips.

No other receiver on today's market offers so much:

- Wide coverage to 2 GHz
- Multi-Mode includes: LSB & USB
- Computer friendly
- Small size, 85 cu. inch, 32 oz.
- Low Power, 12VDC, 300 ma. Max.
- SDU 5000 compatible

SEE The Demo in Dayton!!!
Full Power Comes Alive with a PC!

SDU 5000

For years the professionals have been using special display units (SDU) and spectrum analyzers as an aid to intercepting those elusive signals. Now the serious hobbyist can afford to have the luxury of an SDU with features never before offered in this type of equipment. You'll be able to watch up to a 10MHz window of the spectrum. By moving the SDU cursor left or right, or pressing "Peak" you can pinpoint a signal level (in dBm) while listening. This is possible using the AR3000A*, all data is digital and can be stored on disk, for later analysis when a computer is in use.

EDCO

Electronic Distributors
325 Mill Street, Vienna, Virginia
Phone: 703-938-8105 FAX: 703-938-4525

SEE US IN BOOTHS 575-579. WE ARE A HAMVENTION PRIZE DONOR.

MIL-SPECS/TOP SPECS!

TM-241A

FM MOBILE TRANSCEIVER

Pure and simple, the concept reads like this: "rock-solid performance with straitforward operation, at an affordable cost". And Kenwood's TM-241A (144MHz) FM mobile transceiver symbolizes this perfectly. Great looks and rugged construction are just the beginning. The TM-241A's user-friendly controls make mobile QSOs a snap, and a powerful 50-watt amplifier lets you work simplex with confidence or hit those distant repeaters. Reception specs are equally impressive: intermod characteristics have been improved* to reduce interferance from strong adjacent band signals. Plus, there are 20 multi-function memory channels for programming combinations of frequency, sud-audible tone, and repeater offset.

So, if you're looking for true mobile performance, go back to the basics and reach for Kenwood's TM-241A.

Features

- 144-148 MHz TX, 118-174 MHz RX
- 50 watts RF output
- 20 multi-function memory channels
- Large LCD display with illuminated keys
- Full band scan, programmable band scan, memory scan with channel lock-out
- Time-operated & carrier operated scan modes
- Built-in selectable CTCSS tone encoder
- Auto repeater offset
- Tone alert with elapsed time indicator
- DTSS for selective calling and paging (with optional DTU-2)
- Time-out timer
- Auto power-off with warning beeper
- Meets U.S. military standards for shock and vibration (MIL-STD 810C/D/E)*
- Modifiable for MARS/CAP use (permits required)

These specifications guaranteed for Amateur band only.
*Current K&K2 versions with serial number 5080000 or later.

KENWOOD COMMUNICATIONS CORPORATION
AMATEUR RADIO PRODUCTS GROUP
P.O. Box 22745, 2201 E. Dominguez St., Long Beach, California 90801-5745
Customer support/Brochures (310) 639-5300
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KENWOOD

94ARD-1072(H)

Low Drain, No Pain!

FREE at Dayton '95
GLOVE LEATHER CASE!
(a $30 retail value)
With purchase of TH-79A(D)

TH-79A (Deluxe)
FM DUAL BANDER

Information at your fingertips. Everything you need to know about operating the new TH-79A(D) FM dual-bander (144MHz/440MHz) can be viewed in its unique dot-matrix LCD with alphanumeric display. No need for the manual. In addition to this innovative guide function, the TH-79A(D) sports a user-friendly menu system, providing easy access to the many powerful features of this slim-line handheld transceiver. Such as 82 non-volatile memory channels with ID, DTSS and page functions, and a DTMF memory function for autodial operation. Full-crossband duplex operation is available, as is the ability to receive two frequencies on the same band (VHF+VHF or UHF+UHF) simultaneously. And thanks to the FET power module, long hours of operation are possible on one charge. With the TH-79A(D), transceiver technology enters the 21st century.

Features

NEW 5-WATT VERSION NOW AVAILABLE

- 2.7 approx. output (144MHz), 2W approx. output (440MHz) from MOS FET power module and supplied 6V battery; 5W approx. output using optional PB-34
- Dot-matrix LCD with menu/guide system
- 82 non-volatile memory channels with ID
- DTMF keypad with memory function
- DTSS (Dual-Tone Squelch System) with page
- Built-in CTCSS tone encoder/decoder
- Automatic band change
- Power-on call sign display
- Auto repeater offset (VHF)
- Wide-range flexible antenna
- Input overvoltage warning
- 3-position output power control
- Auto power-off and battery save function
- Time-out timer
- Memory channel lock-out (scan mode)
- Cross-band repeater function
- Page answer-back function
- Channel display function
- Wideband receiver coverage, including AM receive on the aircraft band*
- Clone function
- Modifiable for MARS/CAP use**

*Specifications guaranteed for Amateur bands only.
**Permits required. Specifications guaranteed for Amateur bands only.

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